

LEDiOC LED PRODUCTS
LED IWASAKI OPTICAL CONTROL



LED lights now grace the outer garden of the Imperial Palace.



Improvement work in the outer garden of the Imperial Palace to introduce low-carbon lighting and other low-carbon alternatives

Work has now started to replace existing lighting with LED lighting in the outer garden of the Imperial Palace, a national garden a large part of which is open to the public, to build a lighting environment that is environmentally friendly to prepare for a low-carbon society. This project substituted LEDs for incandescent lamps in landscape luminaires, sidewalk lighting, underwater lighting for fountains and other outdoor lighting in the three areas of the Imperial Palace Plaza, Wadakura Fountain Park and Kitanomaru Park in an effort to substantially lower CO₂ emissions. We were able to create a safe, secure and comfortable visual environment that also contributes to

saving energy. In the shift to LED lighting and against a background of rapidly evolving LED technology, our ultimate goal in conducting improvement work was to develop new and better products.

As a light specialist, IWASAKI wants to be known as a company that protects our precious environment for the next generation by developing environmentally friendly products and pursuing the virtually limitless possibilities of light.

Improvement work in the outer garden of the Imperial Palace to introduce low-carbon lighting and other low-carbon alternatives

Major clients: The Ministry of the Environment,
Kokyoaien National Garden Office
Design: Nikken Sekkei Ltd.

Electrical work: Chuo Denki Koji Co., Ltd.
Luminaires: IWASAKI ELECTRIC Co., Ltd.



What LEDioc can do for our society.

LEDioc series is the result of Iwasaki developments in technologies such as light distribution control and heat sink technology.

The drive force behind this is our goal to build a society where everyone can live safely and securely. As a step on the road towards this goal, the LEDioc series provides efficient lighting that is considerate to the environment.

How to use this catalog

The following example shows how products are listed. Different types of luminaires are presented differently.

1 Optical performance, function and structural features

2 Product model

3 Voltage and frequency

4 Illumination design performance data

(excerpted from Japan Luminaires Association guide 134:2010)

- (1) **Rated luminous flux (luminaire luminous flux):** Initial luminous flux discharged by an LED luminaire in an environment where the ambient temperature is close to 25°C.
- (2) **Power consumption:** Indicates the rated power consumption of an LED luminaire. This value indicates the rated power consumption for the primary side of an independent power supply unit for an LED luminaire equipped with such a unit.
- (3) **Luminous efficacy:** It is a ratio of rated luminous flux to power consumption (in an environment where the ambient temperature is close to 25°C).

$$\text{luminous efficacy } (\ell\text{m/W}) = \frac{\text{rated luminous flux } (\ell\text{m})}{\text{power consumption } (\text{W})}$$
- (4) **LED module life:** Indicates the total number of lighting hours after which the luminous flux drops to 70% measured relative to initial lighting.
- (5) **Light color:** Indicates the correlated color temperature (in 100K increments) measured as prescribed by JIS C8152 "Measurement methods and photometry for white light Light Emitting Diodes (LEDs)."
- (6) **Color rendering index (Ra):** Indicates the general color rendering index Ra measured as prescribed by JIS C8152 "Measurement methods and photometry for white Light Emitting Diodes (LEDs)."

5 Product specifications

6 External dimension drawing

7 Pole installation drawing

(when luminaire is installed on a compatible pole)

* The foundation drawing shows a concrete base (see reference) on standard ground.

* Only LEDioc AREA, solar powered LED hybrid lights and solar powered LED lights are presented.

8 Light distribution pattern



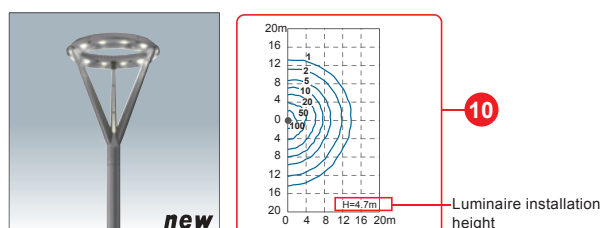
* This catalog only presents LEDioc AREA, solar powered LED hybrid lights and solar powered LED lights.

9 Upward luminous flux ratio category



Luminous flux emitted upwards from a luminaire that is indicated by a ratio (unit: %).

* This catalog only presents LEDioc ROAD, LEDioc STREET, LEDioc AREA, solar powered LED hybrid lights and solar powered LED lights.

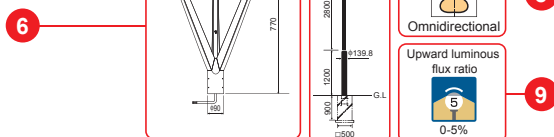
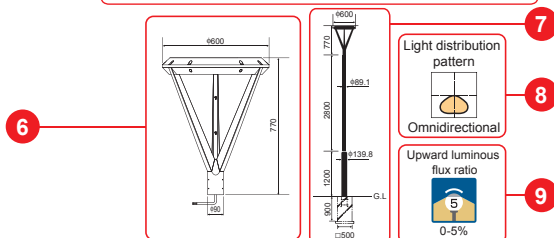


- 1 High efficacy type Initial luminous flux correction Weather-proof
- 2 **E5016SA9N**
- 3 (Luminaire: E5016N-0 + power supply unit: WLE260V625M1/24-1)
(100 to 242V, 50/60Hz)

E5016SA9N/D Dimmable type
(Luminaire: E5016N-0 + power supply unit: WLE260V625M1/24-2)
(100 to 242V, 50/60Hz)

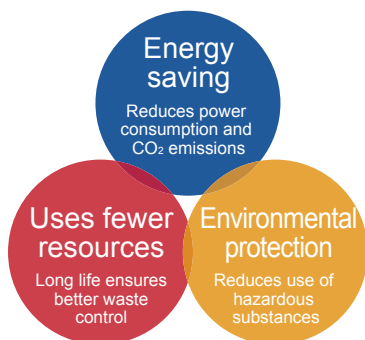
Rated luminous flux (luminaire luminous flux)	Power consumption (average)
9,460lm	127W (100V) 124W (200V/242V)
Luminous efficacy	LED module life
74.5lm/W (100V) 76.3lm/W (200V/242V)	60,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,000K (Daylight)	65

Specifications
Body: Diecast aluminum
Globe: Polycarbonate (clear)
Arm: Diecast aluminum
Finish color: Metallic silver
Pole inserted dimension: φ76.3 × 110mm
Weight: 9.8kg



LEDiOC

Global environmental issues have become a significant challenge to all mankind. IWASAKI ELECTRIC Co., Ltd. are promoting LED lighting as one countermeasure to these issues. The energy saving, resource saving and environmental protection features of LEDioc points the way towards a sustainable society.



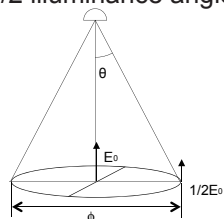
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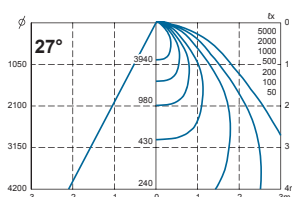
10 Illuminance distribution diagram (reference)

* The figures in the diagram indicate initial horizontal illuminance (unit: lx)

1/2 illuminance angle and Direct horizontal illuminance



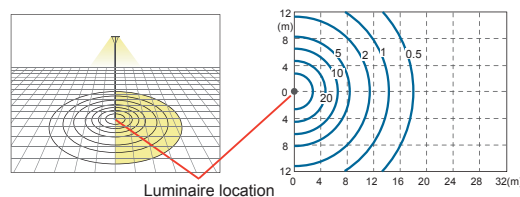
1/2 illuminance angle indicates the spread of light by the angle (Θ) formed by a line from the luminaire to the area directly below it and a line that connects the luminaire and the point that is half the horizontal illuminance (E_h) of the horizontal illuminance below the luminaire.



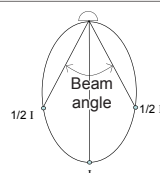
Direct horizontal illuminance data indicates the range within which the horizontal illuminance expressed by the curves can be obtained using the distance from the luminaire along the vertical axis and the horizontal distance from a point directly underneath the luminaire along the horizontal axis.

* The maintenance factor is 1.0.

Illuminance distribution



Beam angle



Beam angle, an indicator that tells you how far the light will distribute, indicates the angle between the two directions opposed to each other over the beam axis where the luminous intensity is half that of the maximum luminous intensity (1).

How to use this catalog

The products we make are designed and manufactured with special consideration for functionality and safety, however, a product that is not used as intended could cause an accident. Therefore, please read through the safety precautions in the catalog when you select a product and read the instruction manual supplied with the product to ensure that you select a product that will operate safely in the application and environment where it will be used.

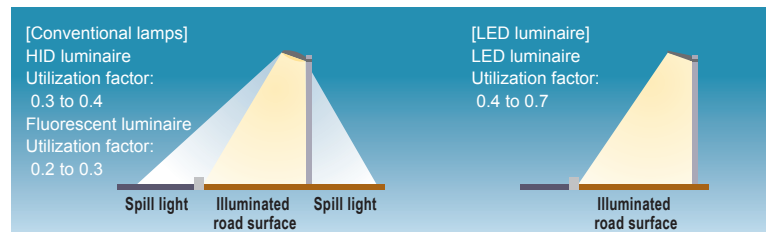
What LEDioc can do

Lighting for the Future

Minimize spilled light affecting homes or nearby facilities while maximizing light reaching the road surface.

- **High lighting efficacy**

The incident light efficacy that a road surface is subject to is an important factor in an outdoor luminaire since there are no ceilings and walls. LED are highly directional and light distribution is therefore easy to control so that only the area of the road that needs to be lit is illuminated. Unlike mercury lamps and fluorescent lamps, lighting efficacy (utilization factor) can be increased while reducing power consumption (less CO₂ emissions).

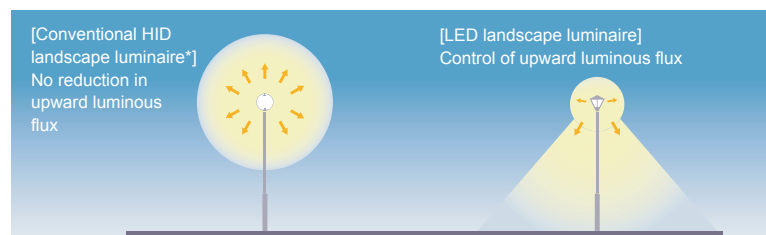


* The utilization figures listed above are only estimates and vary with each product.

Reduce uplight to prevent spilled light affecting the environment and adjacent facilities.

- **Controlling upward luminous flux ratio**

Upward movement of light is controlled to prevent spill light from adversely affecting the environment and surrounding homes. Many products come with high-performance mirrors and lenses to maximize LED performance by accurately and efficiently controlling the distribution of light.



* Round clear globe landscape luminaire.



Luminous flux that moves horizontally upward from the luminaire. The figures indicate its ratio (%).

Control attraction of insects.

- **Little light output in the ultraviolet region** (reduces the number of insects that are attracted)
By reducing output of ultraviolet light, LEDioc is far better than mercury lamps and fluorescent lamps at limiting the number of insects that are attracted, which is beneficial for the surrounding ecosystem.

Mercury lamp (fluorescent type)	Fluorescent lamp	LED cool daylight type	LED daylight type	LED warm white type
100	42	23-32	22-26	15-16

* An LED's propensity to attract insects differ with the type of LED the luminaire or lamp uses.

* The surrounding lighting environment also plays a part in attracting insects. The presence of surrounding light sources that strongly attract insects will negate the insect-repelling characteristics of our LEDs. For maximum effect, installation of separate luminaires for insect attraction is recommended.

Reduce maintenance costs to streamline business operations.

- **Long life**

Advancements in thermal design technology have made it possible to move heat that is detrimental to LED module life away from the light source and thereby extend LED life to 40,000hours or more. Like the LED module, the heat generated by the power supply unit that supplies the LED with power has also been duly considered giving it the same long life as the LED module.

Since the light does not quickly become bright, it stays on longer than intended.

- **Reaches full brightness as soon as you turn on the switch**

The light goes on and quickly reaches full brightness with no waiting. Since repeated turning on and off happens instantly the light allows accurate control that reduces waste of light and lowers power consumption (less CO₂ emissions).

Low temperature regions require stable lighting.

- **The luminous flux does not decrease when used in low-temperature regions.**

Unlike fluorescent lamps, LED usability is not impaired in low temperature regions since they do not become dark when temperatures drop.

* A low temperature region refers to an area where the ambient temperature drops to around -5°C.

* Low temperature types and some outdoor luminaires can be used even down to -20°C or -40°C.

Environmentally friendly features.

- **Contains no hazardous substances**

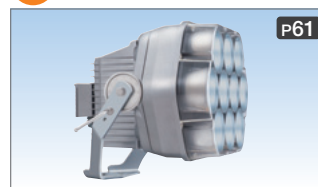
LEDs are environmentally friendly as they do not contain mercury or other hazardous substances like mercury lamps and fluorescent lamps.

LEDioc Series shines anywhere

The LEDioc series comes in a lineup that covers the gamut of lighting from road lighting, landscape lighting, flood lighting and other outdoor lighting to indoor lighting such as downlighting. Compared to conventional lighting fixtures, the LEDioc series with its large energy savings and lower CO₂ emissions will set the standard for future lighting.

OUTDOOR

1 LEDioc FLOOD BLITZ

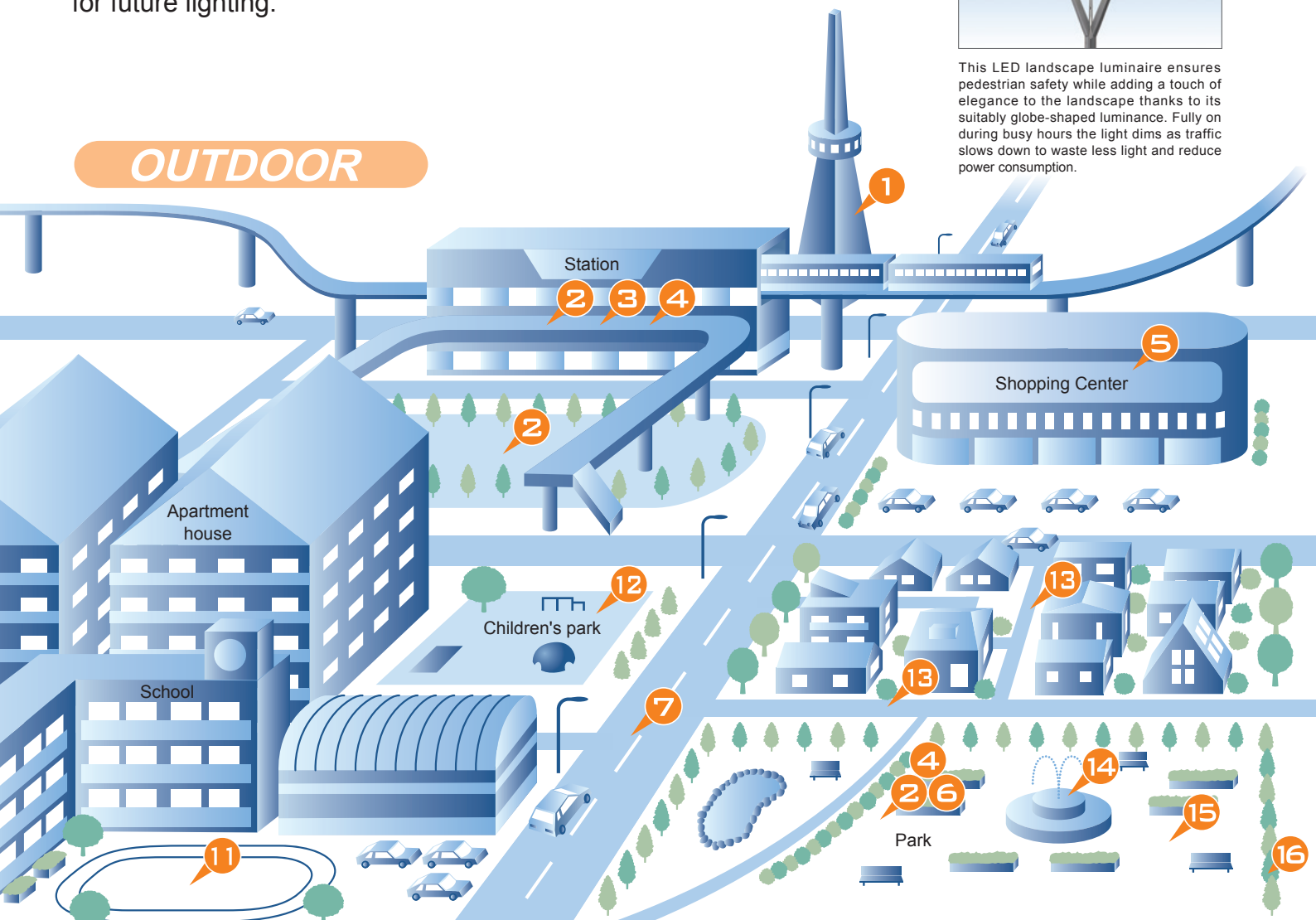


Capable of remotely illuminating large structures like bridges and symbolic towers, LEDioc FLOOD BLITZ also contributes to reduced power consumption (lowering CO₂ emissions).

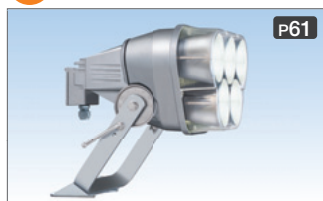
2 LEDioc AREA TYPE G



This LED landscape luminaire ensures pedestrian safety while adding a touch of elegance to the landscape thanks to its suitably globe-shaped luminance. Fully on during busy hours the light dims as traffic slows down to waste less light and reduce power consumption.



11 LEDioc FLOOD BLITZ



Provides high-powered light for illuminating school yards, parking areas and other wide spaces, which substantially lowers power consumption while the long life of the lamp reduces maintenance costs such as lamp replacement.

12 LEDioc LED LIGHT BULB



This LED lamp can replace lamps in existing luminaires (in parks, etc.) if the ballast is also replaced. The lineup includes a 72W and a 30W type, which provide the brightness of a 200W and a 100W mercury lamp, respectively.

13 LEDioc STREET



The LEDioc STREET comes in three types: the 40VA type, the 20VA type and the 10VA type, which are designed to replace 100W mercury lamps, luminaires comprising two 20W fluorescent lamps and those comprising single 20W fluorescent tubes, respectively. Each of the new lamps lowers electricity costs by between 1 to 3 ranks.

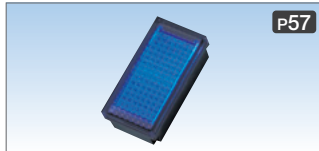
14 LEDioc UNDERWATER LUMINAIRES



Offered in three different light distribution variations of narrow, medium and wide and two light colors of daylight and warm white color, the high-output LEDioc underwater luminaire boasts the industry's highest level of brightness (equivalent to a 250W halogen lamp). Corrosion resistant materials and paint ensure high corrosion resistance and long-term stable quality.

3 SOLAR LED BLOCK AND TILE

P57



These products store electrical energy generated from sunlight in an electrical double layer capacitor to light LEDs without the need for either wiring or conductors. It is the ideal energy source for accent lighting on building exteriors, station squares and other locations.

4 LEDiOC APPROACH TYPE D



An LED Approach light with a simple circular design that blends into any environment. This series includes an omnidirectional distribution type for use in parks and other open spaces and a unidirectional distribution type that suppresses light to the rear making it suitable for lighting passages.

5 LEDiOC FLOOD NEO

P65



The compact and high-powered LEDiOC FLOOD NEO series is the perfect choice for illuminating billboards and smaller parking lots. A lineup consisting of 95W, 50W and 35W lamps enables selection of the brightness that best suits your requirements.

6 LEDiOC AREA TYPE D

P25



An LED landscape luminaire that has a brightness equivalent to a 400W (250W) mercury lamp. The lineup allows you to select a wide-span type for all round light distribution and a high-efficacy type for effective road surface illuminance.

7 LEDiOC ROAD

P15



Complying with the Standard for Installing Road Lighting Systems, LEDiOC ROAD provides the ideal lighting source for any road or street from major arterial roads and other national roads to local roads. The lineup also includes illumination for intersections to provide a favorable visual environment that contributes to traffic safety.

8 LEDiOC TUNNEL



Complying with the Standard for Installing Road Lighting Systems, this LED luminaire can be used for lighting tunnels both on national and local roads. Our unique heat sink configuration extends LED life to up to 90,000hours, which reduces maintenance costs.

9 LEDiOC CEILING HB

P81

P85



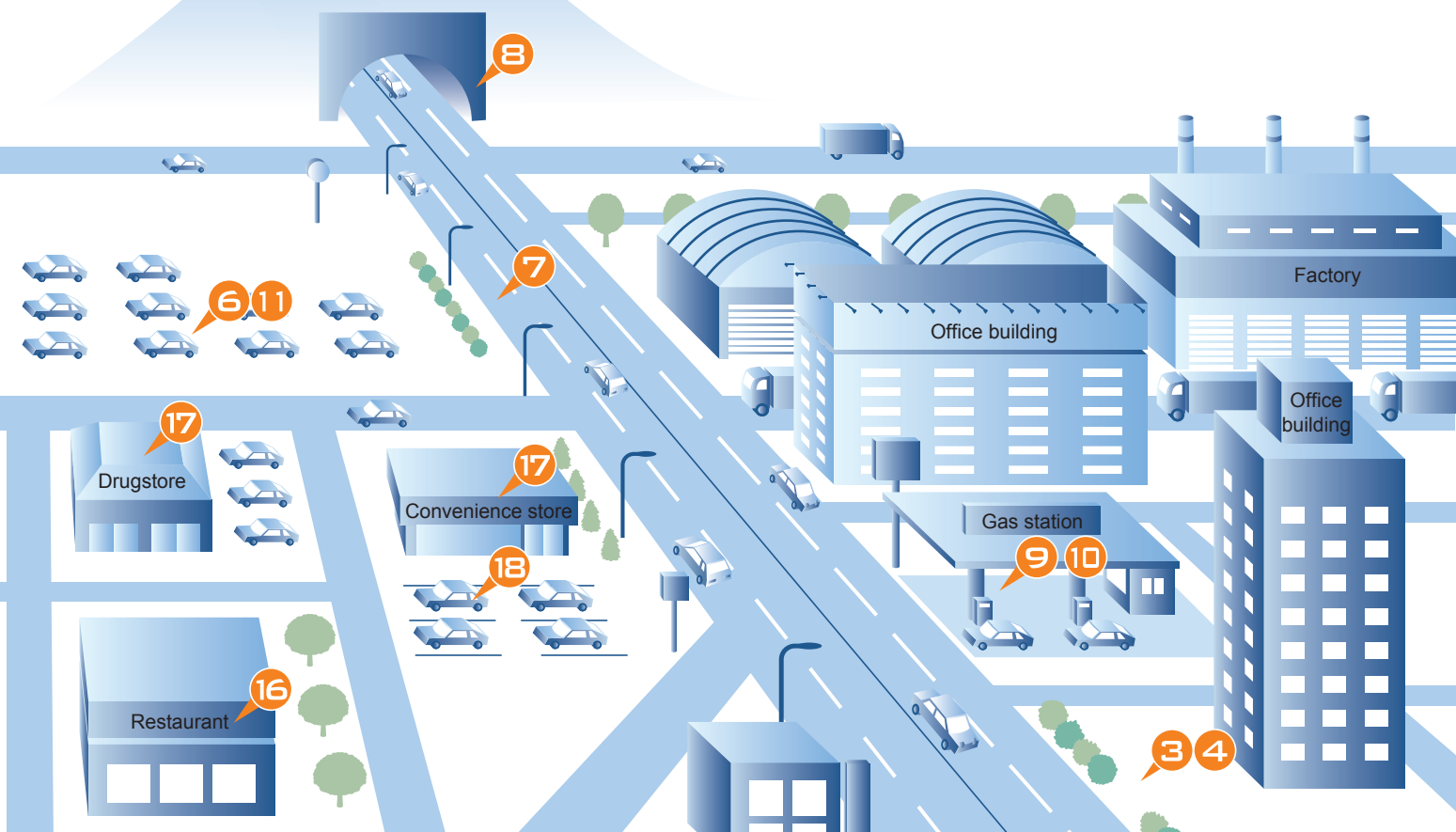
Achieving the same illumination levels as a 400W HID, LEDiOC CEILING HB is the best choice for lighting outdoor facilities such as gas station. Available in three light distribution characteristics - narrow, medium and wide beam, a luminaire for virtually any location and illuminance requirement can be provided.

10 LEDiOC CEILING HB (AREA LIGHT)

P37



We also offer an area light (yard light) lineup with the same design as our ceiling luminaires. They come in a design that harmonizes with service station facilities.



P43

15 Eyebird

Since electricity generated from natural energy such as wind and solar energy charges the battery and power the LED luminaire, there are no electricity costs and the installation is friendly to the environment. Without the need for commercial power, the light will go on at night even when life lines are severed, which is an advantage when the lights are in a park selected as a refuge in the event of a disaster.



16 LEDiOC FLOOD NINO



FLOOD NINO is an outdoor spotlight that provides the same brightness as outdoor spotlights using 75W halogen lamps and despite its 6cm diameter compact body contains its own integral power supply unit. Designed for landscape lighting, the luminaire illuminates small billboards, structures and a wide variety of outdoor objects.

17 LEDiOC LED EYE LAMPS (52W, 18W)



The lamp is enclosed in an all-resin housing made entirely from polycarbonate resin, a thermal conduction material that makes for a lightweight device. It is the ideal choice for illuminating outdoor billboards, smaller parking lots and a wide variety of other applications.

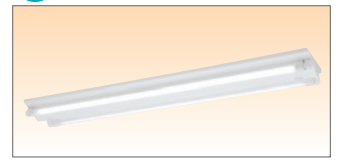
18 LEDiOC LED EYE SENSOR SYSTEM



It features a "safe energy-saving mode" that increases light intensity when sensing the presence of people or cars, and a dimming control system with a "safe security mode" that flashes to warn of dangers. Our goal is to combine dimmable LED luminaires with people detection (infrared light) sensors to reduce waste of light and electricity.

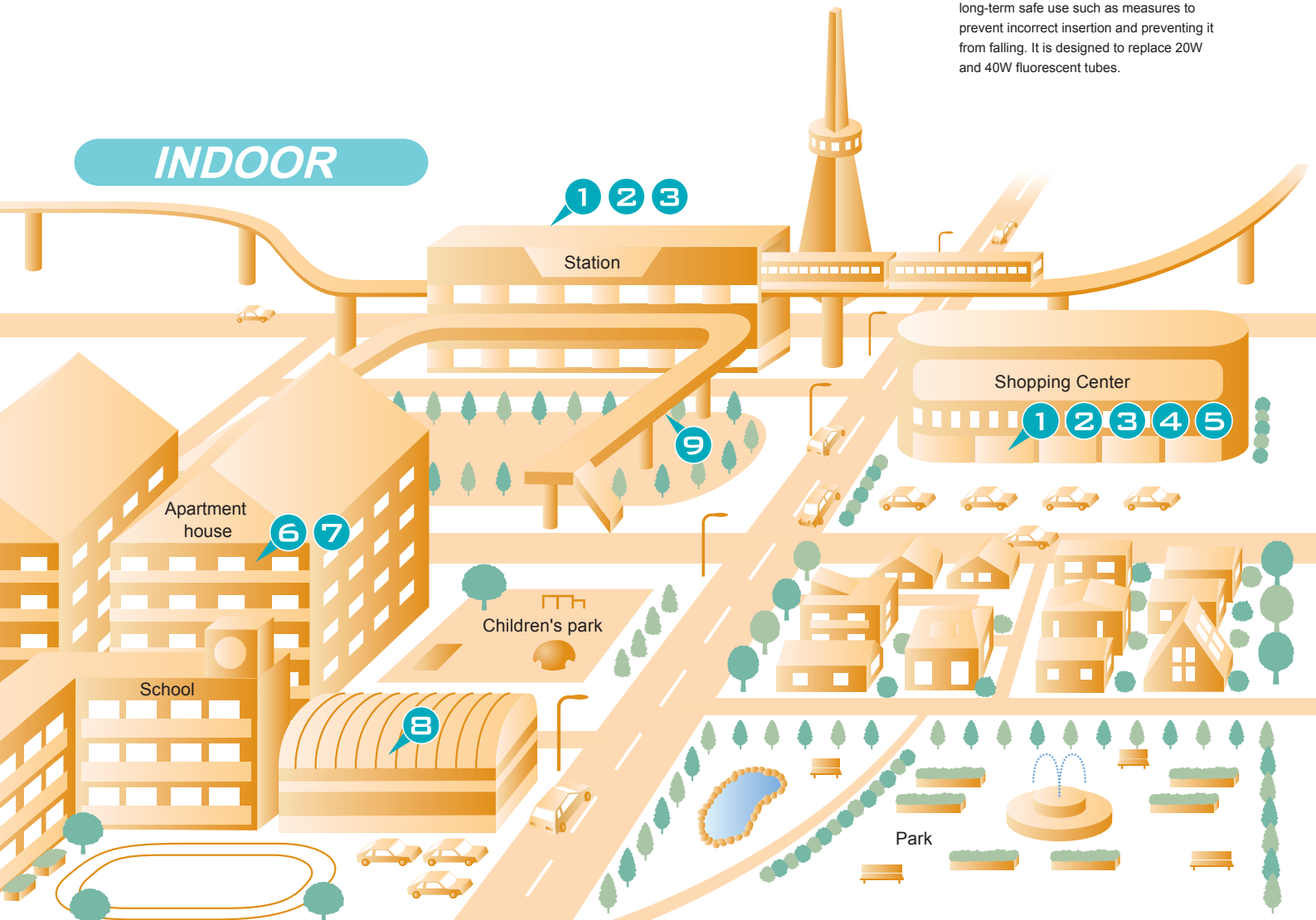
LEDioc Series shines anywhere

1 LEDioc Linear LED lamp luminaire

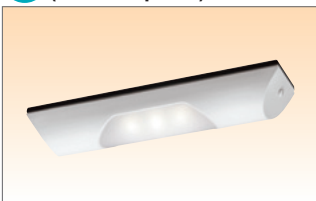


Complying with the JEL standard, this luminaire for linear LED lamps have a number of safety features to guarantee long-term safe use such as measures to prevent incorrect insertion and preventing it from falling. It is designed to replace 20W and 40W fluorescent tubes.

INDOOR



6 LEDioc CEILING II (weather-proof)



Intended to replace 20W and 10W fluorescent lamps, this semi-outdoor luminaire is ideal for lighting shared spaces in apartment houses (stairways, passages and bicycle parking areas), bus shelters and underground passages. Its long life of 60,000hours reduces costs arising from lamp replacement and other maintenance.

7 LEDioc Linear LED lamp luminaire (moisture-proof/weather-proof)



A luminaire for Linear LED lamps that can be used under the eaves and other locations exposed to rain as well as in kitchens, dressing rooms, lavatories and other moisture-rich locations.

8 LEDioc CEILING HIGH-BAY Λ (LAMBDA)



A rated luminous flux of 24,000lm (wide) and 23,500lm (medium) and a high-output that exceeds 400W metal halide lamps makes it the LED luminaire of choice for installation in facilities with high ceilings like gymnasiums, factories and warehouses. Standard features such as initial luminous flux correction and dimming control ensure further energy savings.

9 LEDioc Under-eaves LED Downlight



This downlight produces a brightness that ranges from a 40W incandescent light bulb to a 70W ceramic metal halide lamp. It is the ideal under-eaves luminaire for pedestrian decks, entrances to commercial establishments and other locations exposed to outdoor air.

2 LEDiOC LED Downlight



A wide range of models capable of providing brightness from a 40W incandescent lamp to a 150W ceramic metal halide lamp makes them suitable for general lighting in commercial establishments and a great variety of installations.

3 LED Emergency Exit Light



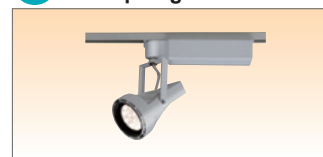
Use of LEDs in evacuation lighting that leads people to safety in the event of an emergency cuts energy consumption and their long life contributes to reducing maintenance costs.

4 LEDiOC LED EYE Lamp (halogen lamp)

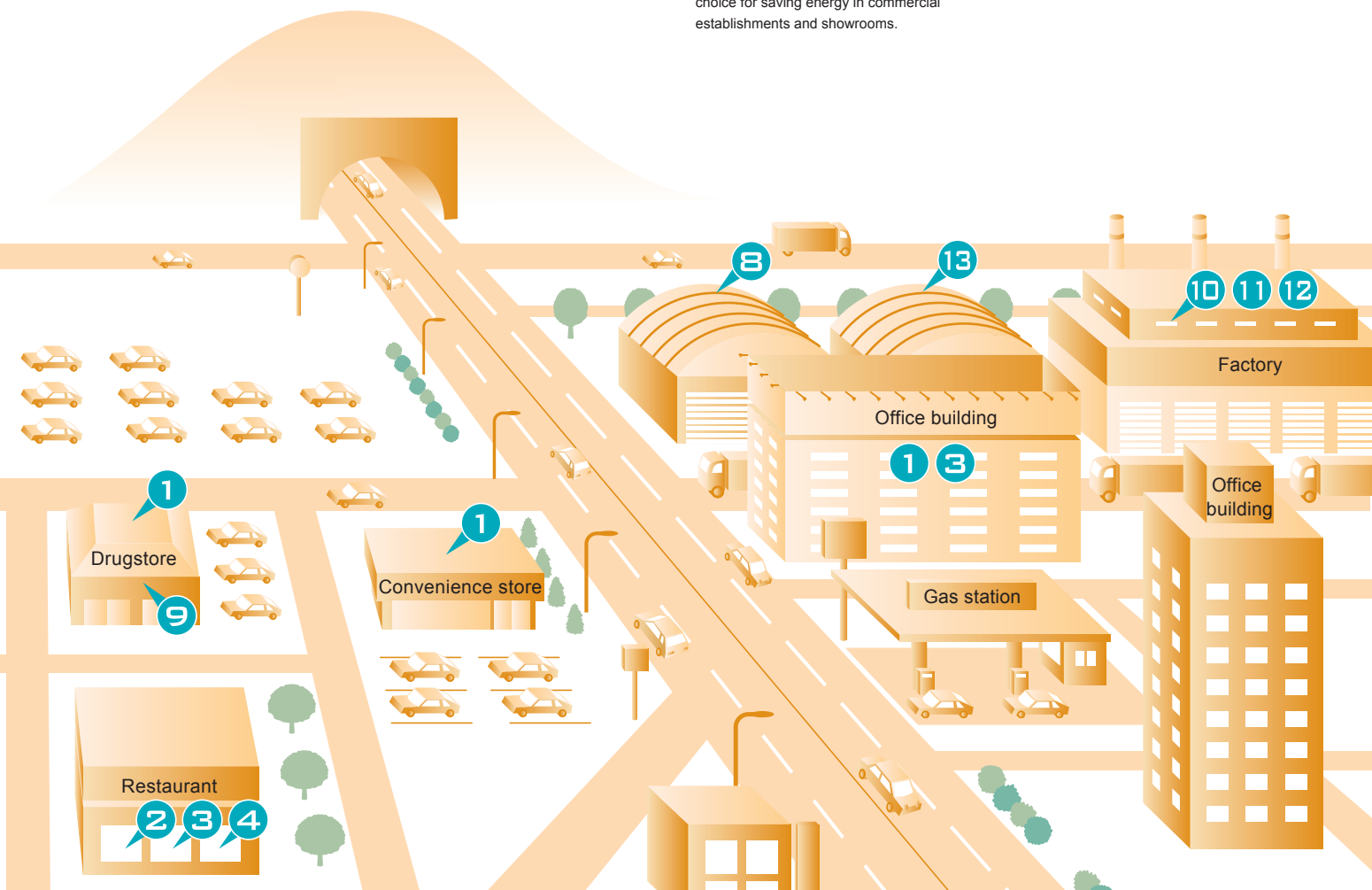


Provided in an E11 socket base, this LED lamp uses dichroic mirrors. The lineup consists of three light colors: warm white, cool white and neodymium color. Our EYE lamp produces the same brightness as a 30W (50W) JDR halogen lamp at a power consumption of 5W. This lamp is the perfect choice for saving energy in commercial establishments and showrooms.

5 LEDiOC LED Spotlight



This LED spotlight and power supply unit is intended for lighting rail installation and achieves a brightness that ranges from 50W halogen lamps and up to 70W ceramic metal halide lamps. It can be used as a spotlight in commercial and other facilities.



10 LEDiOC Explosion-proof LED luminaire



This LED luminaire can be delivered in a number of different mount options including ceiling mount, bracket or stand to suit a broad range of applications. Achieving a brightness equal to a 200W incandescent bulb and compliance with explosion-proof class of Exde II CT5 authorizes its use in hazardous zone category 1.

11 LEDiOC Explosion-proof LED evacuation lighting



This explosion-proof LED evacuating light (explosion-proof class Exde II BT5) is powered by a nickel-hydrate battery. Compared to a cold cathode lamp, it is roughly 62% more energy-conscious and thanks to an LED module with a 60,000-hour life, it will also reduce maintenance costs.

12 LEDiOC Increased safety LED luminaire



Increased safety LED luminaire (explosion-proof class ed3aG3) that has a brightness of two 40W fluorescent tubes. This luminaire is compact - only 400mm long - just 1/3 the size of an equivalent fluorescent tube and as it replaces a dual installation with a single installation it also simplifies replacement work.

13 LEDiOC CEILING low temperature type



A LED luminaire capable of withstanding temperatures in a range between -40°C to +35°C allows it to light freezers and refrigerated warehouses. The luminaire is offered in three types: Positioning box, pendant or ceiling mount (laceway mount) installation. A long life of 60,000hours reduces maintenance costs as fewer lamp replacements will be needed.

LEDiOC LED Light Bulbs

72W and 30W

Replacement of lamps and ballasts enable continued use of existing luminaire*.

High-efficacy LED lamp that spreads light in every direction.

* Existing luminaire should be inspected when use of existing luminaire will be continued.

- The 72W type has a lamp luminous flux of 8,000lm (111lm/W) and when substituted for a 200W mercury lamp, it will provide about the same brightness at a slightly lower total luminous flux.
- The 30W type has a lamp luminous flux of 4,000lm (133lm/W) and will provide the same brightness when substituted for a 100W mercury lamp.



72W type (E40 base type)

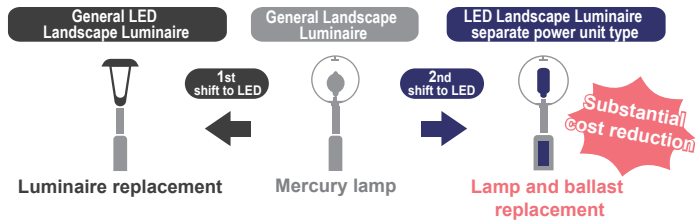


30W type (E27 base type)

Enables use of existing luminaires

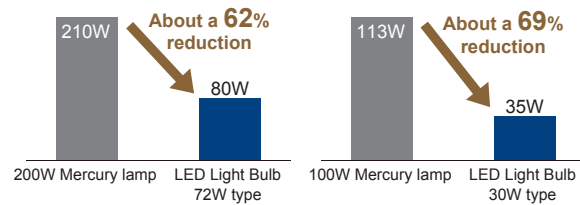
Initial costs are low since only the existing lamp and ballast need to be replaced.

Note: Existing luminaire should be inspected during upgrades when use of existing luminaire will be continued.



Saving energy

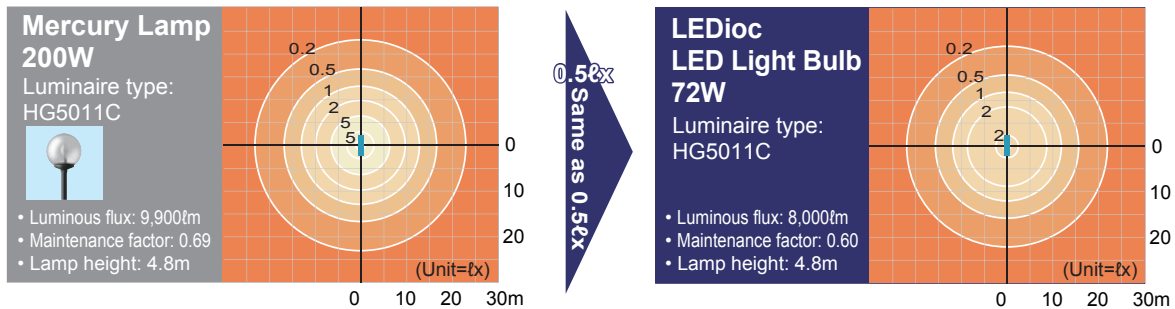
Far more energy efficient than mercury lamps, LEDioc reduces running costs.



* The power consumption noted above is characteristic when used with a 200V power supply.

Same overall light distribution like an HID lamp

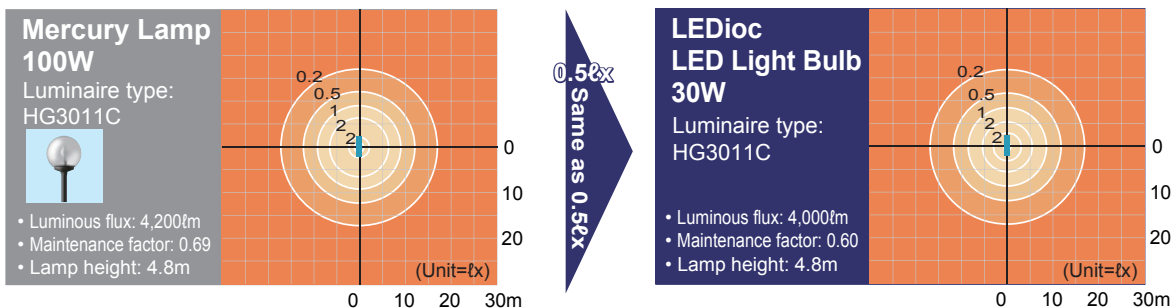
With our proprietary lamp configuration LED lamps provide an evenly distributed overall beam and have a brightness and general feel that few will notice when they replace HID lamps and other conventional lamps.



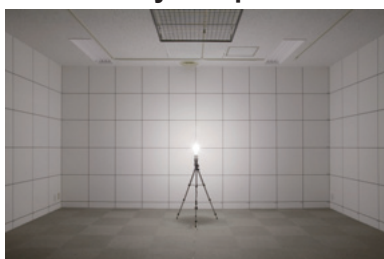
Mercury Lamp 200W



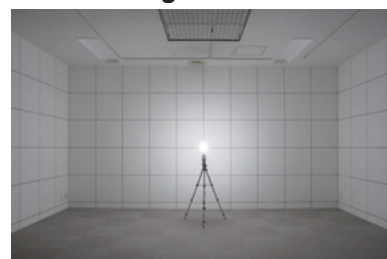
LED Light Bulb 72W



Mercury Lamp 100W



LED Light Bulb 30W



The industry's lightest

Our 30W LED lamp is the industry's lightest* weighing in at 290g, which lowers the wear and tear of luminaires.

The 72W lamp weighs only 460g even with a full set of safety features.

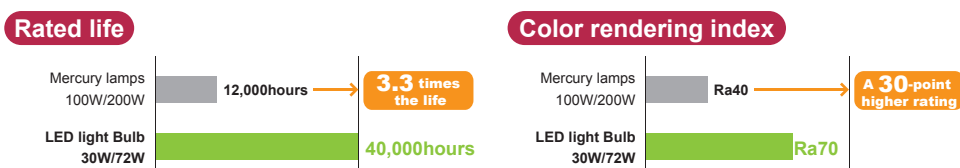
* According to our survey of June 1, 2012

The brightest in the industry

Luminous flux: The use of high efficacy LED modules make our LED light bulbs the industry's brightest in each watt class, as our specifications prove: 30W LED lamp provides 4,000lm (133lm/W) and our 72W lamp provides 8,000lm (111lm/W).

Long life and high color rendering

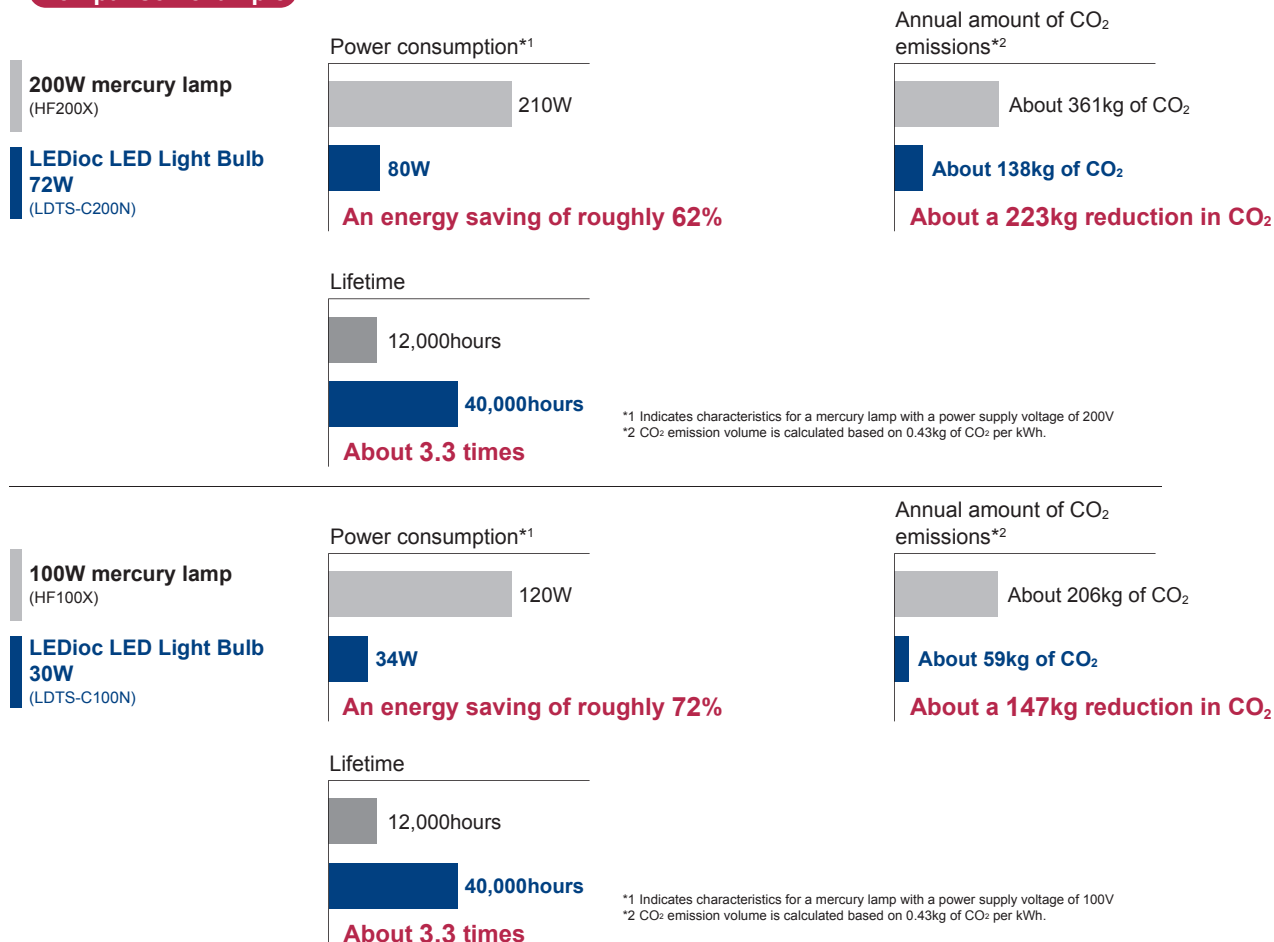
Highly efficient disposal of heat generated by LEDs have raised their rated life to 40,000hours. This makes them easier to maintain than mercury lamps. LED lamps produce a light with a more natural color than mercury lamps as their color rendering index of Ra70 compared to Ra40 for mercury lamps indicate.



Will work in a wide variety of environments and support a wide range of working voltages

- Operating temperature: A wide operating temperature range from -20°C to $+40^{\circ}\text{C}$ permit use in cold climates.
- Operating voltage: 100 to 242V enables operation virtually anywhere.

Comparison example





E40 base type

LDTs-C200N

(Lamp: LDTs72N-G + Power supply: LE072044HS1/24-A1)
(100 to 242V, 50/60 Hz)

Total luminous flux	Power Consumption	Rated life
8,000lm	79W (100V) 80W (200V)	40,000hours

Light Color	Color Rendering Index (Ra)
Equivalent to 5,000K (Daylight)	70

Specifications

Body: Diecast aluminum

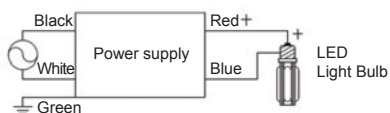
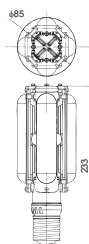
Globe: Polycarbonate

Finish color: White paint

Ambient operating

temperature range: -20°C to +40°C

Weight: 460g



LED light bulbs are DC powered. Connect to the power supply so that the eyelet (top) of the lamp is +. (Connecting it in reverse will not destroy the lamp, but it will not turn on.)



E27 base type

LDTs-C100N

(Lamp: LDTs30N-GA + Power supply: LE030025HS1/24-A1)
(100 to 242V, 50/60 Hz)

Total luminous flux	Power Consumption	Rated life
4,000lm	34W (100V) 35W (200V)	40,000hours

Light Color	Color Rendering Index (Ra)
Equivalent to 5,000K (Daylight)	70

Specifications

Body: Diecast aluminum

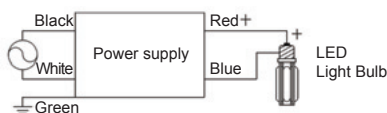
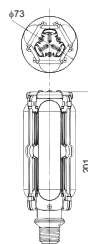
Globe: Polycarbonate

Finish color: White paint

Ambient operating

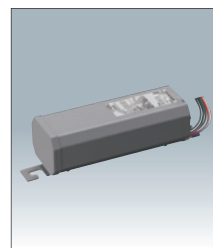
temperature range: -20°C to +40°C

Weight: 290g



LED light bulbs are DC powered. Connect to the power supply so that the eyelet (top) of the lamp is +. (Connecting it in reverse will not destroy the lamp, but it will not turn on.)

Power supply unit



For 72W

LE072044HS1/24-A1

(100 to 242V, 50/60 Hz)

For 30W

LE030025HS1/24-A1

(100 to 242V, 50/60 Hz)

Body: Steel plate

Lead wire: 0.8m

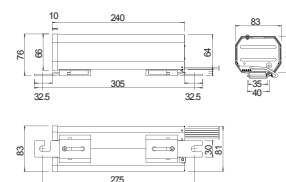
Applicable pole:

Insertable pole $\phi 130.8$ (4B) or larger

Weight: 2.5kg

Ambient operating

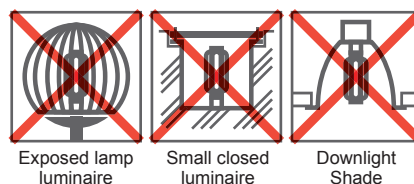
temperature range: -20°C to +40°C



Main applicable luminaire Weather-proof landscape luminaire (pole top/pendant type)



- Compatible luminaires are general weather-proof landscape luminaires.
- Cannot be used with luminaires that are small and airtight or those that shine downwards, such as downlights or those with shades.
- When used for luminaires that control light distribution, such as streetlights or security lights, it may not meet installation standards.
- Use an LED light bulb with perpendicular lighting fixtures.
- To continue using existing equipment it should be inspected and modified as necessary.



LEDiOC ROAD

400/300/250 SERIES

A long-life and energy-saving solution, our LED streetlight also has excellent safety and maintenance credentials.

- Reduces CO₂ emissions by 73% or more than mercury lamps and 56% or more than high-pressure sodium lamps.
- Lamp life of 60,000hours. Long life substantially cuts maintenance costs. Maintains constant luminous flux over the complete service life.
- Multiple safety features
Dual line operation function and soft-start function make life easier and safer for drivers and pedestrians.



Continuous illumination



Intersection illumination

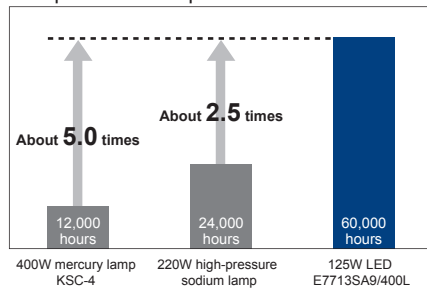
Great Energy-saving Effect

Initial luminous flux correction increases LED life to 60,000 hours while having an average power consumption of 125W (at 200V), which is about 73% of the power consumed by a 400W mercury lamp and 56% of the power consumed by a 220W high-pressure sodium lamp.

A long life reduces maintenance costs

A 60,000-hour life dramatically lowers maintenance costs (70% lumen maintenance).

Comparison of lamp life



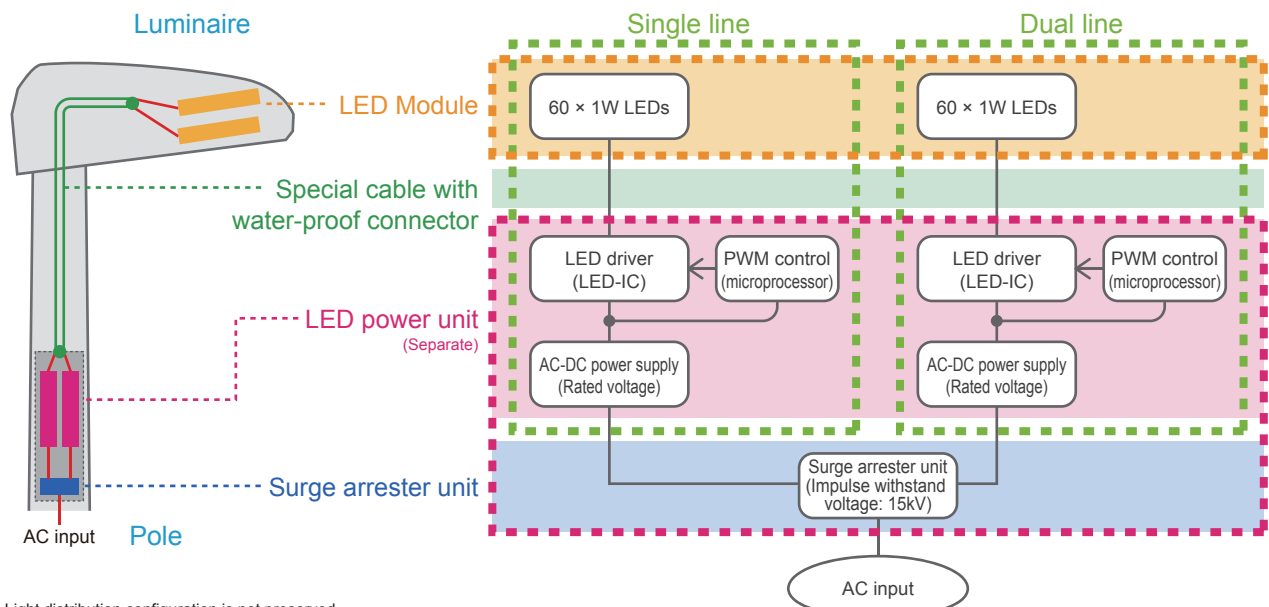
1/2 dimming function

A step dimming function helps lower power costs and CO₂ emissions for further energy saving late at night or at other times when traffic volumes drop. When the dimming signal line of the LED module control device (power supply unit) receives voltage (200V AC) externally the light is dimmed by 50%.

* Only the E7713SA9/400L/D, the E7113SA9/400L/D come with the step dimming function.

Dual line operation function

The circuits in LEDiOC ROAD are configured as dual line so if one line breaks down the remaining line will provide half the brightness.*



* Light distribution configuration is not preserved.

Safety design

Luminaire body and power supply unit come with safety features designed to protect it from external electrical and physical impact.

Lightning and surge protection voltage: 15kV

The luminaire has been designed to withstand outdoor surges and has a lightning and surge protection voltage of 15kV. (common mode)

Safety wire

A safety wire is provided as standard to prevent the luminaire from falling should it be separated from the pole due to an external cause.

* This requires an installation on the pole.

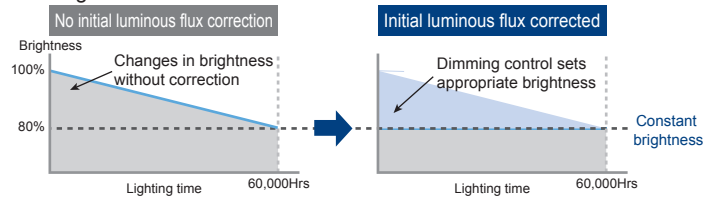
Soft - start function (a gradual increase in voltage during startup)

Unlike HID light sources, LEDs reach 100% brightness instantly. To ensure that this sudden change in brightness does not physically impact the driver, a microprocessor in the luminaire provides a soft-start function that controls current so that the LED reaches full brightness in 10 seconds.

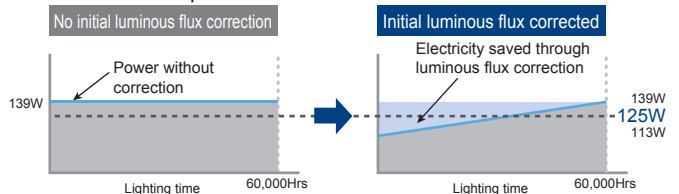
Initial luminous flux correction (function for maintaining a constant brightness)

Current control provided by the microprocessor incorporated in the power supply makes sure that brightness is maintained at a constant level from initial lighting until end of LED life. In this way, excessive brightness is suppressed out of consideration for the maintenance factor, which lowers power consumption.

Brightness



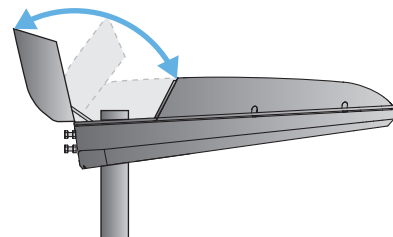
Power consumption



* LEDiOC ROAD 400L at 200V

Easy of maintenance

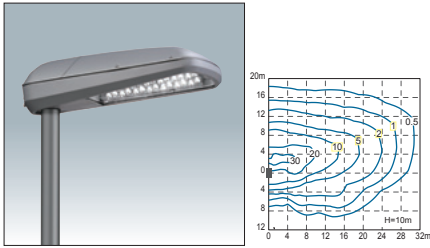
The luminaire body has been designed for greater ease of installation and maintenance. The new design of the luminaire body features openings that are compact yet open wide to simplify installation and wiring work.



Cold climate resistant and improved ease of installation

Special cables with water-proof connectors make it easier to connect the LED module and the power unit. Cold climate resistance has also been improved by lowering the ambient operating temperature from -20°C to 35°C (-20°C to 40°C for our power supply unit).

LEDiOC ROAD 400 SERIES
LEDiOC ROAD 400L
(CONTINUOUS ILLUMINATION)



Continuous illumination | Straight pole type | Semi cutoff

With initial luminous flux correction | Weather-proof

E7713SA9/400L

(Luminaire: E7713-0 + power supply unit:
WLE180V360M2C1/24-1)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
11,500lm	128W (100V) 125W (200V)
Luminous efficacy	LED module life
89.8lm/W (100V) 92.0lm/W (200V)	60,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,700K (Cool daylight)	70

Specifications

Body: Diecast aluminum

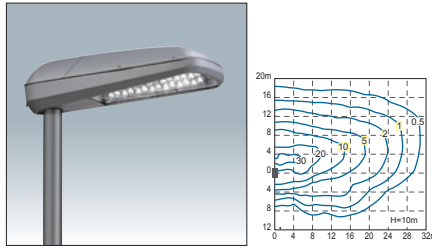
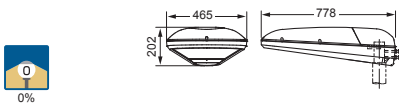
Globe: Tempered glass

Finish color: Metallic silver

Pole inserted dimension: $\phi 60.5$ (2B) \times 120mm

Power supply unit: WLE180V360M2C1/24-1

Weight: 14.9kg



Continuous illumination | Straight pole type | Semi cutoff

With initial luminous flux correction+1/2 dimming function

Weather-proof

E7713SA9/400L/D

(Luminaire: E7713-0 + power supply unit:
WLE180V360M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
11,500lm	128W (100V) 125W (200V)
Luminous efficacy	LED module life
89.8lm/W (100V) 92.0lm/W (200V)	60,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,700K (Cool daylight)	70

Specifications

Body: Diecast aluminum

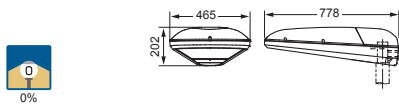
Globe: Tempered glass

Finish color: Metallic silver

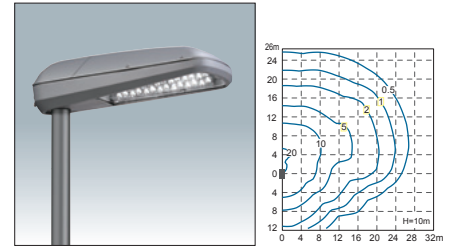
Pole inserted dimension: $\phi 60.5$ (2B) \times 120mm

Power supply unit: WLE180V360M2C1/24-2

Weight: 14.9kg



LEDiOC ROAD 400C
(INTERSECTION ILLUMINATION)



Continuous illumination | Straight pole type | Semi cutoff

With initial luminous flux correction | Weather-proof

E7714SA9/400C

(Luminaire: E7714-0 + power supply unit:
WLE180V360M2C1/24-1)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
10,770lm	128W (100V) 125W (200V)
Luminous efficacy	LED module life
84.1lm/W (100V) 86.1lm/W (200V)	60,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,700K (Cool daylight)	70

Specifications

Body: Diecast aluminum

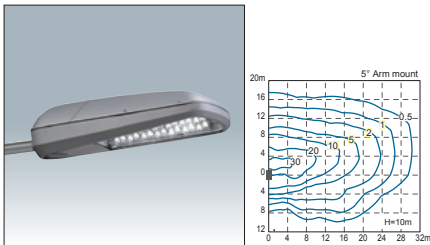
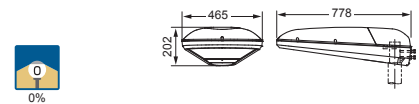
Globe: Tempered glass

Finish color: Metallic silver

Pole inserted dimension: $\phi 60.5$ (2B) \times 120mm

Power supply unit: WLE180V360M2C1/24-1

Weight: 14.9kg



Continuous illumination | Arm type | Semi cutoff

With initial luminous flux correction | Weather-proof

E7113SA9/400L

(Luminaire: E7113-0 + power supply unit:
WLE180V360M2C1/24-1)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
11,500lm	128W (100V) 125W (200V)
Luminous efficacy	LED module life
89.8lm/W (100V) 92.0lm/W (200V)	60,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,700K (Cool daylight)	70

Specifications

Body: Diecast aluminum

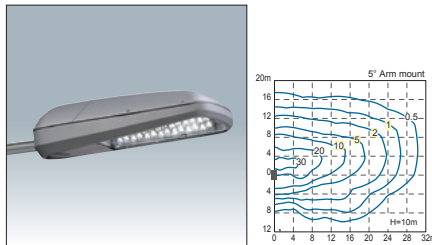
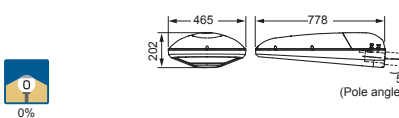
Globe: Tempered glass

Finish color: Metallic silver

Arm inserted dimension: $\phi 60.5$ (2B) \times 120mm

Power supply unit: WLE180V360M2C1/24-1

Weight: 14.9kg



Continuous illumination | Arm type | Semi cutoff

With initial luminous flux correction+1/2 dimming function

Weather-proof

E7113SA9/400L/D

(Luminaire: E7113-0 + power supply unit:
WLE180V360M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
11,500lm	128W (100V) 125W (200V)
Luminous efficacy	LED module life
89.8lm/W (100V) 92.0lm/W (200V)	60,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,700K (Cool daylight)	70

Specifications

Body: Diecast aluminum

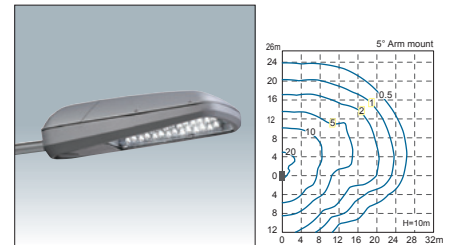
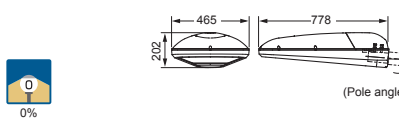
Globe: Tempered glass

Finish color: Metallic silver

Arm inserted dimension: $\phi 60.5$ (2B) \times 120mm

Power supply unit: WLE180V360M2C1/24-2

Weight: 14.9kg



Continuous illumination | Arm type | Semi cutoff

With initial luminous flux correction | Weather-proof

E7114SA9/400C

(Luminaire: E7114-0 + power supply unit:
WLE180V360M2C1/24-1)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
10,770lm	128W (100V) 125W (200V)
Luminous efficacy	LED module life
84.1lm/W (100V) 86.1lm/W (200V)	60,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,700K (Cool daylight)	70

Specifications

Body: Diecast aluminum

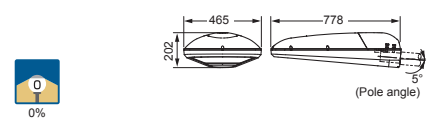
Globe: Tempered glass

Finish color: Metallic silver

Arm inserted dimension: $\phi 60.5$ (2B) \times 120mm

Power supply unit: WLE180V360M2C1/24-1

Weight: 14.9kg

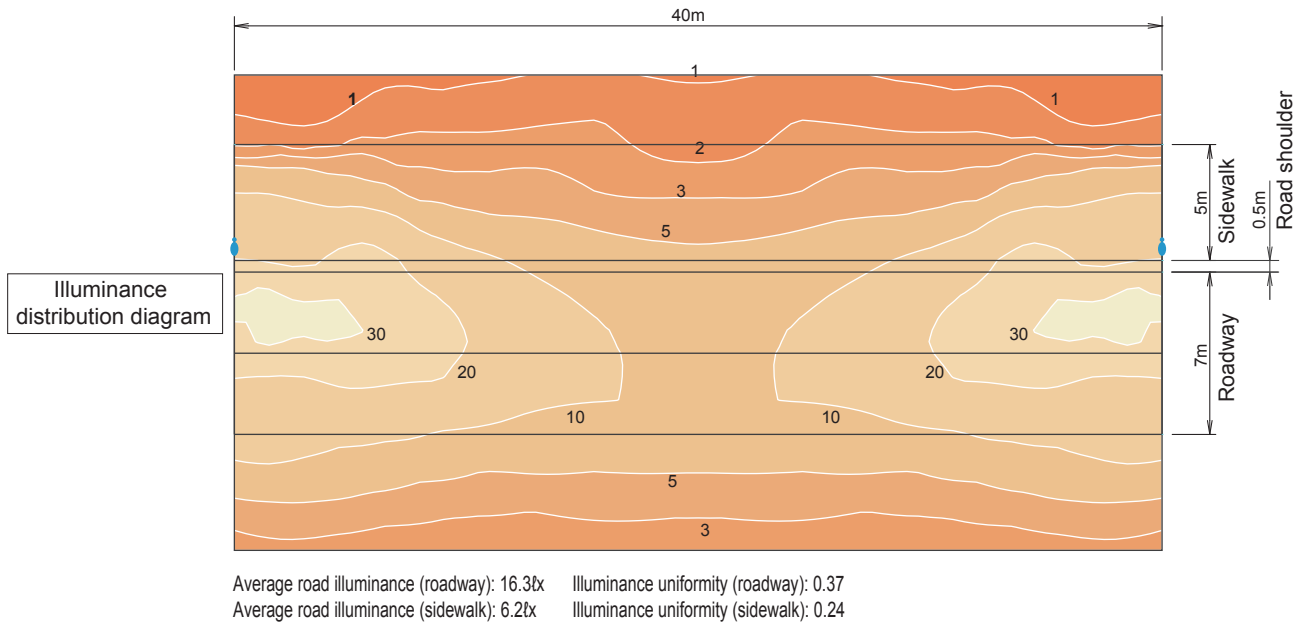
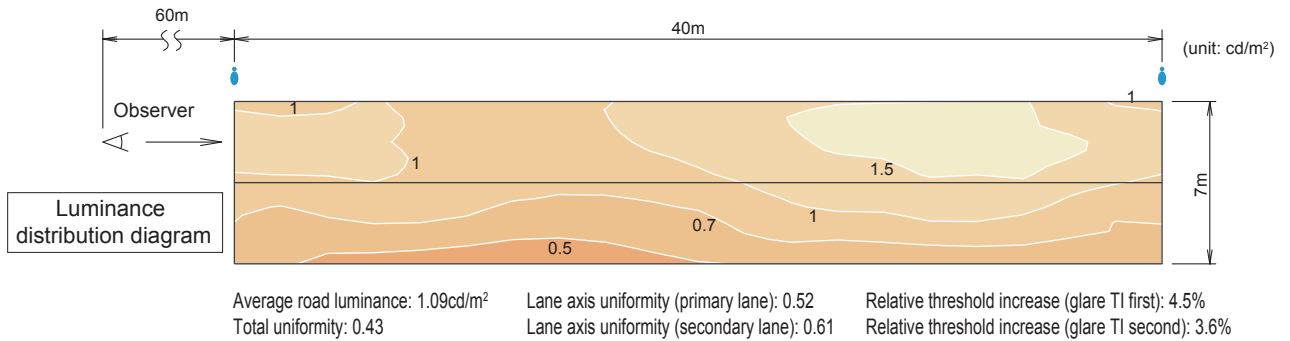




Major arterial roads: Average road Luminance: 1.0cd/m²

E7713SA9/400L <LEDiOC ROAD 400L>

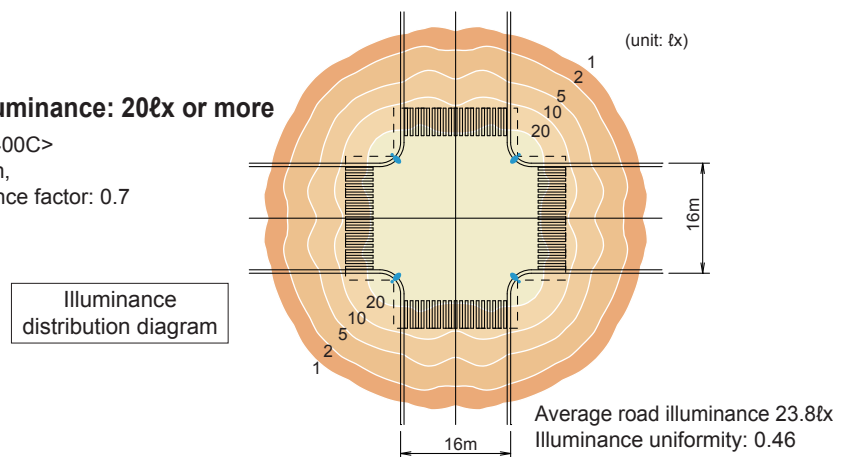
Design conditions: Road width: 7.0m, installation height: 10.0m, installation interval: 40.0m, OH: -1m, maintenance factor: 0.7, asphalt road surface: C2, qo=0.07



Intersection Average road illuminance: 20lx or more

E7714SA9/400C <LEDiOC ROAD 400C>

Design conditions: Road width: 7.0m, installation height: 10.0m, maintenance factor: 0.7



Comparison example

Mercury lamp for street lighting

(KSC-4/H745)
400W mercury lamp

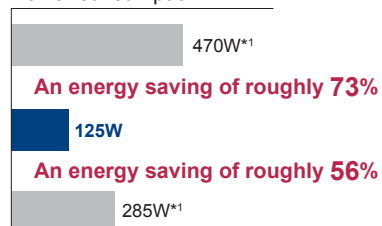
LEDiOC ROAD 400L

(E7713SA9/400L)

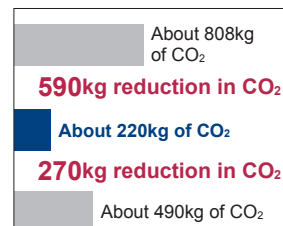
High-pressure sodium lamp for street lighting

(KSH-2/H7718)
220W high-pressure sodium lamp

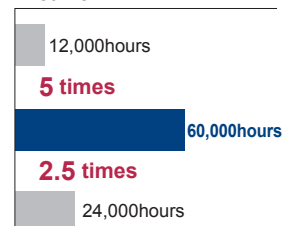
Power consumption



Annual amount of CO₂ emissions*²



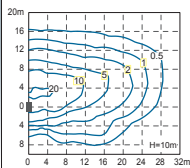
Lifetime



*¹ Power consumption follows the characteristics of "Road and tunnel luminaire specifications (established 2008)" published by the Association of Electricity and Telecommunication Engineering for Land and Infrastructure.

*² CO₂ emission volume is calculated based on 0.43kg of CO₂ per kWh.

LEDiOC ROAD 300 SERIES LEDiOC ROAD 300L (CONTINUOUS ILLUMINATION)



Continuous illumination | Straight pole type | Semi cutoff

With initial luminous flux correction | Weather-proof

E7713SA9/300L

(Luminaire: E7713-0 + power supply unit:
WLE180V220M2C1/24-1)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
7,650lm	81W (100V) 80W (200V)
Luminous efficacy	LED module life
94.4lm/W (100V) 95.6lm/W (200V)	60,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,700K (Cool daylight)	70

Specifications

Body: Diecast aluminum

Globe: Tempered glass

Finish color: Metallic silver

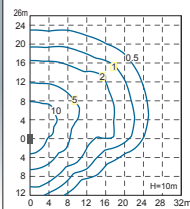
Pole inserted dimension: $\phi 60.5$ (2B) \times 120mm

Power supply unit: WLE180V220M2C1/24-1

Weight: 14.9kg



LEDiOC ROAD 300C (INTERSECTION ILLUMINATION)



Continuous illumination | Straight pole type | Semi cutoff

With initial luminous flux correction | Weather-proof

E7714SA9/300C

(Luminaire: E7714-0 + power supply unit:
WLE180V220M2C1/24-1)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
7,130lm	81W (100V) 80W (200V)
Luminous efficacy	LED module life
88.0lm/W (100V) 89.1lm/W (200V)	60,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,700K (Cool daylight)	70

Specifications

Body: Diecast aluminum

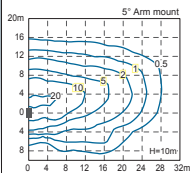
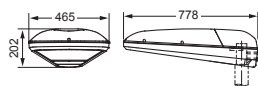
Globe: Tempered glass

Finish color: Metallic silver

Pole inserted dimension: $\phi 60.5$ (2B) \times 120mm

Power supply unit: WLE180V220M2C1/24-1

Weight: 14.9kg



Continuous illumination | Arm type | Semi cutoff

With initial luminous flux correction | Weather-proof

E7113SA9/300L

(Luminaire: E7113-0 + power supply unit:
WLE180V220M2C1/24-1)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
7,650lm	81W (100V) 80W (200V)
Luminous efficacy	LED module life
94.4lm/W (100V) 95.6lm/W (200V)	60,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,700K (Cool daylight)	70

Specifications

Body: Diecast aluminum

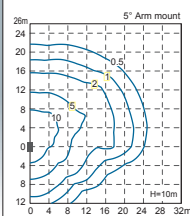
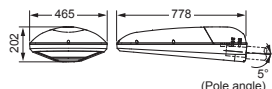
Globe: Tempered glass

Finish color: Metallic silver

Arm inserted dimension: $\phi 60.5$ (2B) \times 120mm

Power supply unit: WLE180V220M2C1/24-1

Weight: 14.9kg



Continuous illumination | Arm type | Semi cutoff

With initial luminous flux correction | Weather-proof

E7114SA9/300C

(Luminaire: E7114-0 + power supply unit:
WLE180V220M2C1/24-1)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
7,130lm	81W (100V) 80W (200V)
Luminous efficacy	LED module life
88.0lm/W (100V) 89.1lm/W (200V)	60,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,700K (Cool daylight)	70

Specifications

Body: Diecast aluminum

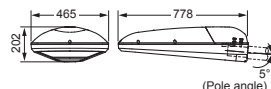
Globe: Tempered glass

Finish color: Metallic silver

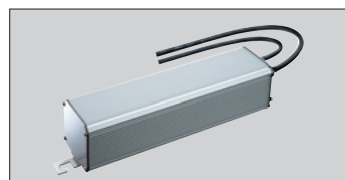
Arm inserted dimension: $\phi 60.5$ (2B) \times 120mm

Power supply unit: WLE180V220M2C1/24-1

Weight: 14.9kg



Power supply unit



For the 400 series

WLE180V360M2C1/24-1

WLE180V360M2C1/24-2

* With 1/2 dimming function

For the 300 series

WLE180V220M2C1/24-1

(100 to 242V, 50/60Hz)

15kV surge arrester unit

Body: Aluminum

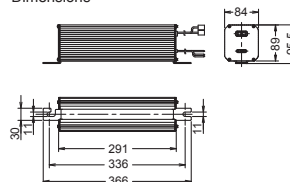
Weight: 2.4kg

Applicable pole: Insertable pole $\phi 130.8$ (5B) or larger

Lead wire: 0.8m

Working voltage: 100 to 242V

Dimensions

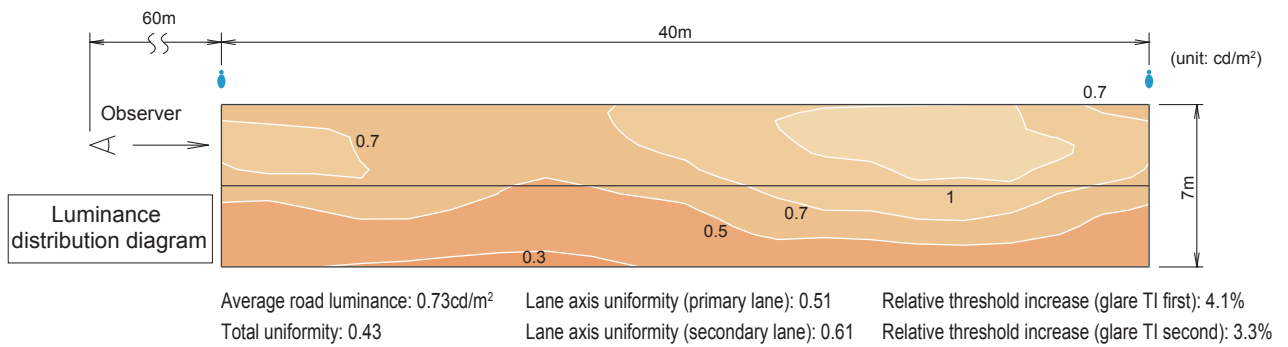




Major arterial roads: Average road luminance: 0.7cd/m²

E7713SA9/300L <LEDiOC ROAD 300L>

Design conditions: Road width: 7.0m, installation height: 10.0m, installation interval: 40.0m, OH: -1m, maintenance factor: 0.7, asphalt road surface: C2, qo=0.07

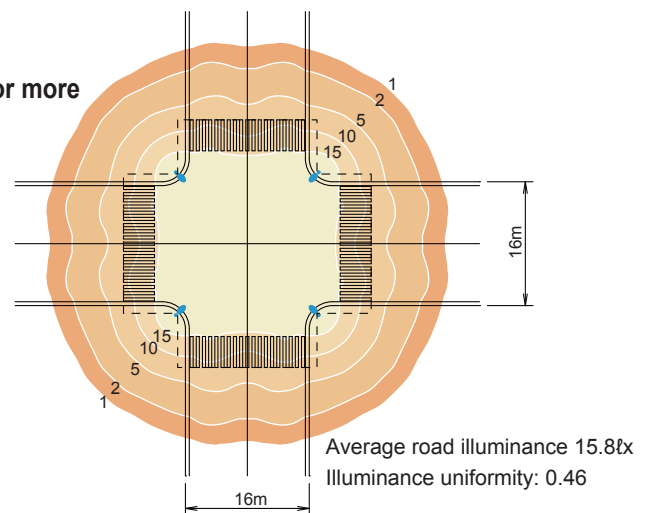


Intersection Average road illuminance: 15lx or more

E7714SA9/300C <LEDiOC ROAD 300C>

Design conditions: Road width: 7.0m, installation height: 10.0m, maintenance factor: 0.7

Illuminance distribution diagram



Comparison example

Mercury lamp for street lighting
(KSC-4/H745)
300W mercury lamp

LEDiOC ROAD 300L
(E7713SA9/300L)

High-pressure sodium lamp for street lighting
(KSH-2/H7718)
180W high-pressure sodium lamp

Power consumption

360W*¹

An energy saving of roughly 78%

80W

An energy saving of roughly 67%

240W*¹

Annual amount of CO₂ emissions*²

About 619kg of CO₂

About a 480kg reduction of CO₂

About 140kg of CO₂

About a 270kg reduction of CO₂

About 413kg of CO₂

Lifetime

12,000hours

5 times

60,000hours

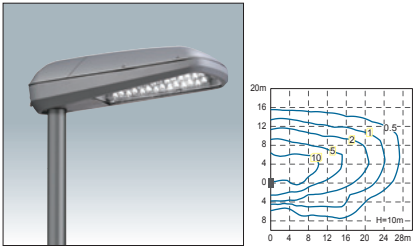
2.5 times

24,000hours

*¹ Power consumption follows the characteristics of "Road and tunnel luminaire specifications (established 2008) published by the Association of Electricity and Telecommunication Engineering for Land and Infrastructure.

*² CO₂ emission volume is calculated based on 0.43kg of CO₂ per kWh.

LEDioc ROAD 250 SERIES
LEDioc ROAD 250L
(CONTINUOUS ILLUMINATION)



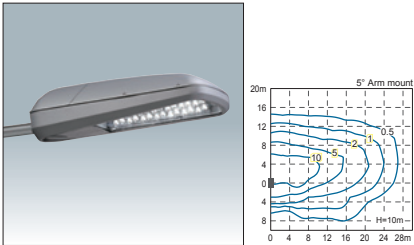
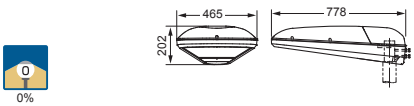
Continuous illumination | Straight pole type | Semi cutoff
With initial luminous flux correction | Weather-proof

E7713SA9/250L
(Luminaire: E7713-0 + power supply unit:
WLE180V170M2C1/24-1)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
6,020lm	64W (100V) 63W (200V)
Luminous efficacy	LED module life
94.0lm/W (100V) 95.5lm/W (200V)	60,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,700K (Cool daylight)	70

Specifications

Body: Diecast aluminum
Globe: Tempered glass
Finish color: Metallic silver
Pole inserted dimension: $\phi 60.5$ (2B) \times 120mm
Power supply unit: WLE180V170M2C1/24-1
Weight: 14.9kg



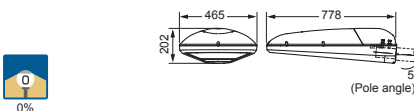
Continuous illumination | Arm type | Semi cutoff
With initial luminous flux correction | Weather-proof

E7113SA9/250L
(Luminaire: E7113-0 + power supply unit:
WLE180V170M2C1/24-1)
(100 to 242V, 50/60Hz)

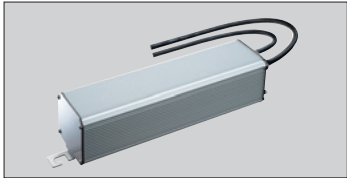
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Arm inserted dimension: $\phi 60.5$ (2B) \times 120mm
Power supply unit: WLE180V170M2C1/24-1
Weight: 14.9kg

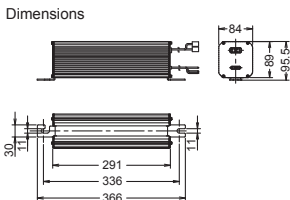


Power supply unit



For the 250 series
WLE180V170M2C1/24-1
(100 to 242V, 50/60Hz)

15kV surge arrester unit
Body: Aluminum
Weight: 2.4kg
Applicable pole: Insertable pole $\phi 130.8$ (5B) or larger
Lead wire: 0.8m
Working voltage: 100 to 242V

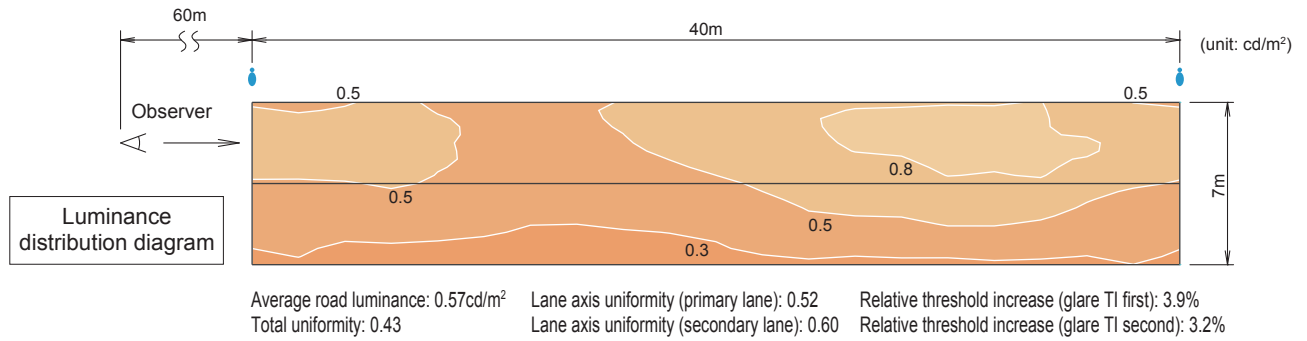




Arterial and minor arterial roads: Average road luminance: 0.5cd/m²

E7713SA9/250L <LEDiOC ROAD 250L>

Design conditions: Road width: 7.0m, installation height: 10.0m, installation interval: 40.0m, OH: -1m, maintenance factor: 0.7, asphalt road surface: C2, qo=0.07



Comparison example

Mercury lamp for street lighting

(KSC-4/H745)
250W mercury lamp

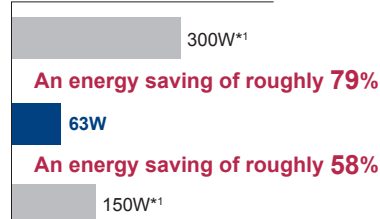
LEDiOC ROAD 250L

(E7713SA9/250L)

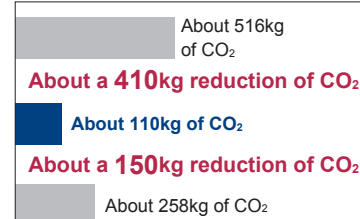
High-pressure sodium lamp for street lighting

(KSH-2/H7718)
110W high-pressure sodium lamp

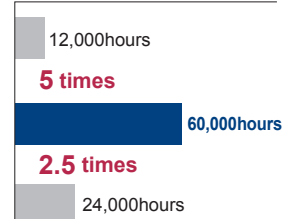
Power consumption



Annual amount of CO₂ emissions*²



Lifetime



*¹ Power consumption follows the characteristics of "Road and tunnel luminaire specifications (established 2008) published by the Association of Electricity and Telecommunication Engineering for Land and Infrastructure."

*² CO₂ emission volume is calculated based on 0.43kg of CO₂ per kWh.



Shin-Tomei Expressway, Shizuoka Service Area
(LEDioc ROAD)



Soseigawa Avenue
(LEDioc ROAD)



Roadside Station Mihara Shinmei-no-sato
(LEDioc ROAD)



Agatabashi Bridge
(LEDioc ROAD)



Kairakuen Parking Lot
(LEDioc ROAD)



Joetsu City street lights
(LEDioc ROAD)



Rumoi Station Plaza
(LEDioc ROAD)



Takarabashi Park
(LEDioc ROAD)



Shin-Tomei Expressway near Ebina Tollgate
(LEDioc ROAD co-PAZU)



Higashikoiso sidewalk lights
(LEDioc ROAD co-PAZU)



Hokuriku Expressway, Imajo Tunnel
(LEDioc TUNNEL)



Shin-Tomei Expressway, Shimizu Parking Area
(LEDioc TUNNEL)

LED Light Bulb

Street Lighting

Park and Landscape
Luminaires

Landscape Luminaires

Floodlights

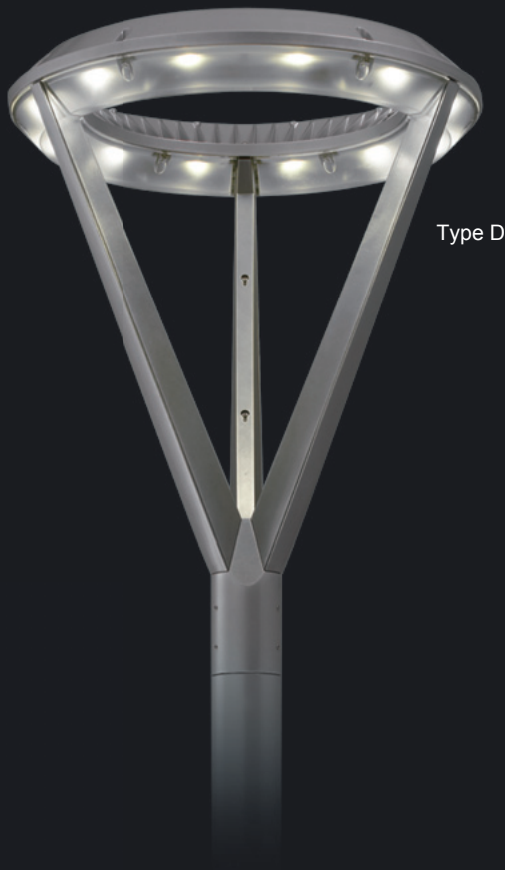
High-bay Luminaires

Downlights

Universal Downlights

Special Luminaires for
Industrial Applications

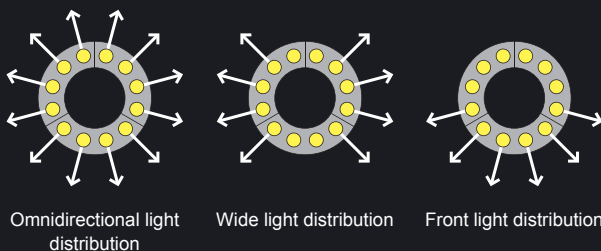
LEDiOC AREA Type D/Type G



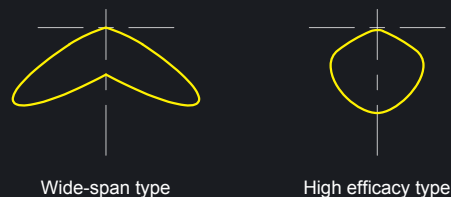
Unlike conventional luminaires that control brightness levels only, this LED landscape luminaire provides brightness and light control to ensure appropriate lighting depending on application and time period.

Light adjusted to application

Making good use of the inherent smallness of LED light sources, this luminaire was given a ring-like configuration to effectively control light distribution for three types of light distribution - omnidirectional, wide and front.




In omnidirectional light distribution, our standard lineup offers a "wide-span type" that prioritizes wide distribution and a "high efficacy type" that provide efficient illumination of the road surface.



A wide lineup of model variations

The Types D and G provide a wide range of models, some of which cannot be found in conventional landscape luminaire lineups. The Type D comes in 24 models and Type G offers 36 different models. They are differentiated by two levels of brightness (equivalent to the brightness of 400W and 250W mercury lamps), three light distribution variations (omnidirectional, wide and front), two types of light color (daylight and warm white) and both come with or without dimming control.

List of product lineup

Type	Brightness	Light distribution	Dimming control	Light color				Set type	Rated luminous flux (Luminaire luminous flux)	Power consumption		
										Average value	Maximum value	
	Mercury lamp 400W Equivalent	Omnidirectional light distribution	High efficacy type	No	5,000K			E5016SA9N	9460lm	127W(100V) 124W(200V) 124W(242V)	149W(100V) 144W(200V) 143W(242V)	
					3,000K			E5016SA9LW	6480lm			
			Wide-span type		5,000K			E5017SA9N	8780lm	127W(100V) 124W(200V) 124W(242V)	149W(100V) 144W(200V) 143W(242V)	
					3,000K			E5017SA9LW	6020lm			
		Omnidirectional light distribution	High efficacy type	Yes	5,000K			E5016SA9N/D	9460lm	127W(100V) 124W(200V) 124W(242V)	149W(100V) 144W(200V) 143W(242V)	
					3,000K			E5016SA9LW/D	6480lm			
	Wide-span type		5,000K			E5017SA9N/D	8780lm	127W(100V) 124W(200V) 124W(242V)	149W(100V) 144W(200V) 143W(242V)			
			3,000K			E5017SA9LW/D	6020lm					
	Mercury lamp 250W Equivalent	Omnidirectional light distribution	High efficacy type	No	5,000K			E5018SA9N	6640lm	96W(100V) 95W(200V) 96W(242V)	111W(100V) 109W(200V) 109W(242V)	
					3,000K			E5018SA9LW	4550lm			
			Wide-span type		5,000K			E5019SA9N	6330lm	96W(100V) 95W(200V) 96W(242V)	111W(100V) 109W(200V) 109W(242V)	
					3,000K			E5019SA9LW	4340lm			
		Mercury lamp 400W Equivalent	Wide light distribution	—	No	5,000K			E5024SA9N	8910lm	127W(100V) 124W(200V) 124W(242V)	149W(100V) 144W(200V) 143W(242V)
						3,000K			E5024SA9LW	6110lm		
	—		Yes	5,000K			E5024SA9N/D	8910lm	127W(100V) 124W(200V) 124W(242V)	149W(100V) 144W(200V) 143W(242V)		
				3,000K			E5024SA9LW/D	6110lm				
Mercury lamp 400W Equivalent	Front light distribution	—	No	5,000K			E5025SA9N	9010lm	127W(100V) 124W(200V) 124W(242V)	149W(100V) 144W(200V) 143W(242V)		
				3,000K			E5025SA9LW	6170lm				
		—	Yes	5,000K			E5025SA9N/D	9010lm	127W(100V) 124W(200V) 124W(242V)	149W(100V) 144W(200V) 143W(242V)		
				3,000K			E5025SA9LW/D	6170lm				
	Mercury lamp 400W Equivalent	Omnidirectional light distribution	High efficacy type	No	5,000K			E5020SA9N	11800lm	180W(100V) 175W(200V) 175W(242V)	197W(100V) 191W(200V) 190W(242V)	
					3,000K			E5020SA9LW	8090lm			
Wide-span type			5,000K			E5021SA9N	11100lm	180W(100V) 175W(200V) 175W(242V)	197W(100V) 191W(200V) 190W(242V)			
			3,000K			E5021SA9LW	7630lm					
High efficacy type			Yes	5,000K			E5020SA9N/D	11800lm	180W(100V) 175W(200V) 175W(242V)	197W(100V) 191W(200V) 190W(242V)		
				3,000K			E5020SA9LW/D	8090lm				
Wide-span type		5,000K			E5021SA9N/D	11100lm	180W(100V) 175W(200V) 175W(242V)	197W(100V) 191W(200V) 190W(242V)				
		3,000K			E5021SA9LW/D	7630lm						
Mercury lamp 250W Equivalent		Omnidirectional light distribution	High efficacy type	No	5,000K			E5022SA9N	8980lm	150W(100V) 147W(200V) 147W(242V)	162W(100V) 158W(200V) 158W(242V)	
					3,000K			E5022SA9LW	6160lm			
			Wide-span type		5,000K			E5023SA9N	8670lm	150W(100V) 147W(200V) 147W(242V)	162W(100V) 158W(200V) 158W(242V)	
					3,000K			E5023SA9LW	5940lm			
	Mercury lamp 400W Equivalent	Wide light distribution	—	No	5,000K			E5026SA9N	11200lm	180W(100V) 175W(200V) 175W(242V)	197W(100V) 191W(200V) 190W(242V)	
					3,000K			E5026SA9LW	7710lm			
—		Yes	5,000K			E5026SA9N/D	11200lm	180W(100V) 175W(200V) 175W(242V)	197W(100V) 191W(200V) 190W(242V)			
			3,000K			E5026SA9LW/D	7710lm					
Mercury lamp 400W Equivalent	Front light distribution	—	No	5,000K			E5027SA9N	11300lm	180W(100V) 175W(200V) 175W(242V)	197W(100V) 191W(200V) 190W(242V)		
				3,000K			E5027SA9LW	7780lm				
		—	Yes	5,000K			E5027SA9N/D	11300lm	180W(100V) 175W(200V) 175W(242V)	197W(100V) 191W(200V) 190W(242V)		
				3,000K			E5027SA9LW/D	7780lm				
	Mercury lamp 400W Equivalent	Omnidirectional light distribution	High efficacy type	Yes (light color variation type)	Ring	5,000K	Globe	5,000K ↓ 3,000K	E5028SA9N/D	11800lm(5000K) 11000lm(3000K)	180W(100V) 175W(200V) 175W(242V)	197W(100V) 191W(200V) 190W(242V)
					Ring	3,000K	Globe	3,000K ↓ 5,000K	E5028SA9LW/D	8820lm(5000K) 8090lm(3000K)		
Wide-span type			Ring		5,000K	Globe	5,000K ↓ 3,000K	E5029SA9N/D	11100lm(5000K) 10300lm(3000K)	180W(100V) 175W(200V) 175W(242V)	197W(100V) 191W(200V) 190W(242V)	
			Ring		3,000K	Globe	3,000K ↓ 5,000K	E5029SA9LW/D	8360lm(5000K) 7630lm(3000K)			
Mercury lamp 250W Equivalent	Omnidirectional light distribution	High efficacy type	Yes (light color variation type)	Ring	5,000K	Globe	5,000K ↓ 3,000K	E5030SA9N/D	8980lm(5000K) 8250lm(3000K)	150W(100V) 147W(200V) 147W(242V)	162W(100V) 158W(200V) 158W(242V)	
				Ring	3,000K	Globe	3,000K ↓ 5,000K	E5030SA9LW/D	6890lm(5000K) 6160lm(3000K)			
		Wide-span type		Ring	5,000K	Globe	5,000K ↓ 3,000K	E5031SA9N/D	8670lm(5000K) 7930lm(3000K)	150W(100V) 147W(200V) 147W(242V)	162W(100V) 158W(200V) 158W(242V)	
				Ring	3,000K	Globe	3,000K ↓ 5,000K	E5031SA9LW/D	6890lm(5000K) 5940lm(3000K)			
Mercury lamp 400W Equivalent	Wide light distribution	—	Yes (light color variation type)	Ring	5,000K	Globe	5,000K ↓ 3,000K	E5032SA9N/D	11200lm(5000K) 10500lm(3000K)	180W(100V) 175W(200V) 175W(242V)	197W(100V) 191W(200V) 190W(242V)	
				Ring	3,000K	Globe	3,000K ↓ 5,000K	E5032SA9LW/D	8450lm(5000K) 7710lm(3000K)			
Mercury lamp 400W Equivalent	Front light distribution	—	Yes (light color variation type)	Ring	5,000K	Globe	5,000K ↓ 3,000K	E5033SA9N/D	11300lm(5000K) 10600lm(3000K)	180W(100V) 175W(200V) 175W(242V)	197W(100V) 191W(200V) 190W(242V)	
				Ring	3,000K	Globe	3,000K ↓ 5,000K	E5033SA9LW/D	8510lm(5000K) 77800lm(3000K)			

* The dimmable type requires a special dimming controller (Model ILSCON01A).

* When a dimming controller is used to control dimming, a terminating resistor (Model ILSCON01A-R) must be used on the last device in each system.

* The dimmable type dims the light in the range between 20% to 100%.

* The light color variation type allows the color in the globe to be switched between two colors. In addition to the daylight 5,000K and warm white 3,000K noted above, the light color can be set to blue or green (special order).

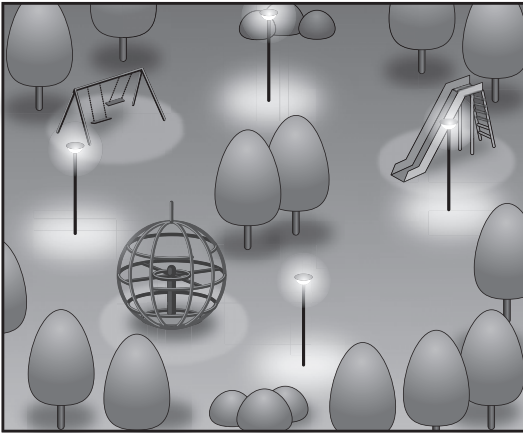
* The rated luminous flux for light color variation types is shown for each light color in the center of the globe.

The dimming control adjusts the light to suit the time of day and the event.

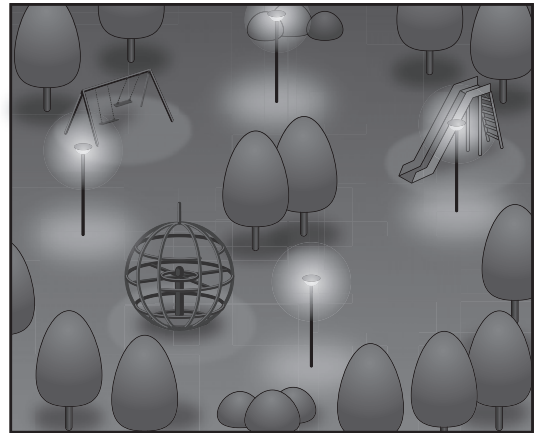
The combination of a dimming power unit and the designated dimming controller (type number ILSCON01A), produces even greater energy savings via precision dimming control to suit the time of day. In addition, switching the light color * makes it possible to render light to suit the scene, for a given time, season or event.

* When utilizing light-color switching, always use the designated luminaire (see P34-P35).

[Parks]

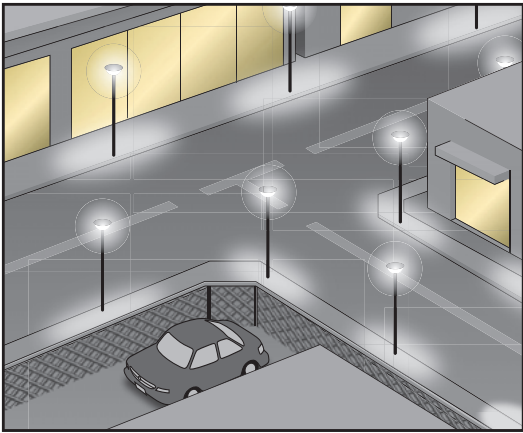


Normal nighttime illumination (100% lit)
Lighting can be ensured so parks can be used safely and securely even at night by lighting the inside of the park evenly with a broad-span type of luminaire. Also, we have a lineup of high efficacy luminaires, which limits light spillage into the neighborhood and ensures efficient illuminance.

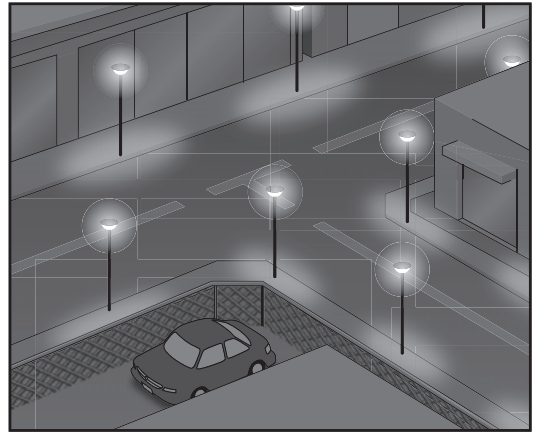


Illumination late at night (20% to 50% lit)
Automatically switching power to reduce waste, so lights are dimmed to 50% when pedestrian traffic decreases, and further to 20% when there is very little traffic late at night realizes both crime prevention and energy saving effects.

[Sidewalk and landscape luminaires]

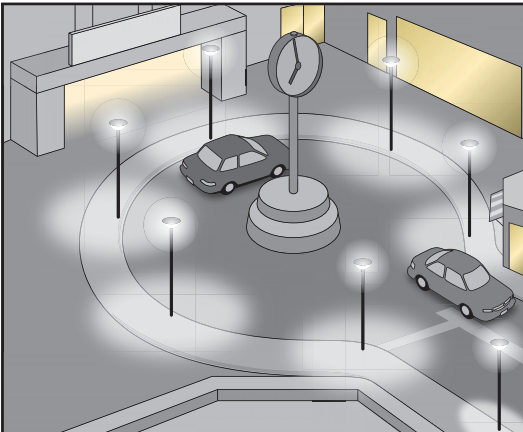


Normal nighttime illumination (100% lit)
The combination of the efficiently-illuminating ring and the diffused light from the milky white globe in the center of the luminaire ensure roads are lighted efficiently and the surface of the globe emits a soft light to give the scene a brighter feel.

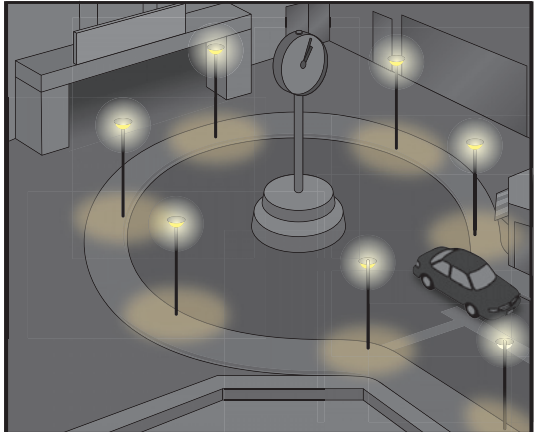


Illumination late at night (ring turned off)
Turning off the ring LED late at night when fewer people pass by and switching to the light from the globe in the center of luminaire ensures makes sure there is a minimal level of brightness in the space while ensuring safety on the road and at the same time achieving energy savings.

[Station square]



Normal nighttime illumination (100% lit)
The broad light distribution of the ring keeps the road lit brightly and evenly while the diffused light from the globe in the center of the luminaire gives a bright feeling to render a bustling station square spectacularly.

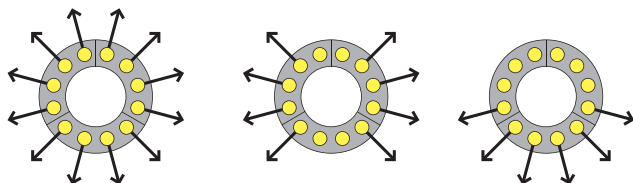


Illumination late at night (ring turned off, globe light color changed)
Turning off the LED of the ring late at night and switching the globe light from daylight to warm white color allows the scene to be changed from an active to a calm atmosphere.

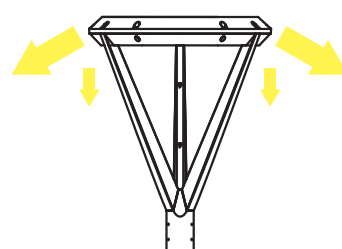
The ideal light distribution for the right location

Making good use of the inherent smallness of LED light sources, this luminaire was given a ring-like configuration to effectively control light distribution for three types of light distribution--omnidirectional, wide and front.

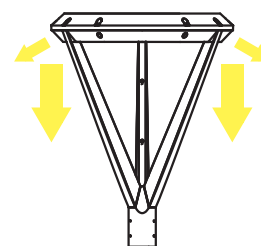
To enable the selection of the light distribution type that best fits a particular application, omnidirectional light distribution lamps come in a wide span type that maximizes light distribution and a high efficacy type that ensures efficient road surface illumination.



Omnidirectional light distribution Wide light distribution Front light distribution



Omnidirectional light distribution/
wide span type



Omnidirectional light distribution/
high efficacy type

Combining with the designated dimming controller enables dimming and switching the light color

Combining with the designated dimming controller enables greater energy conservation via precision dimming control to suit the time of day, as well as effectively rendering lighting to suit the scene, such as for the time, season and event, by switching the light color *.



Entirely lit



Only the ring part ON



Only the globe part ON
(Daylight type)



Only the globe part ON
(Warm white type)



Only the globe part ON
(Blue type)

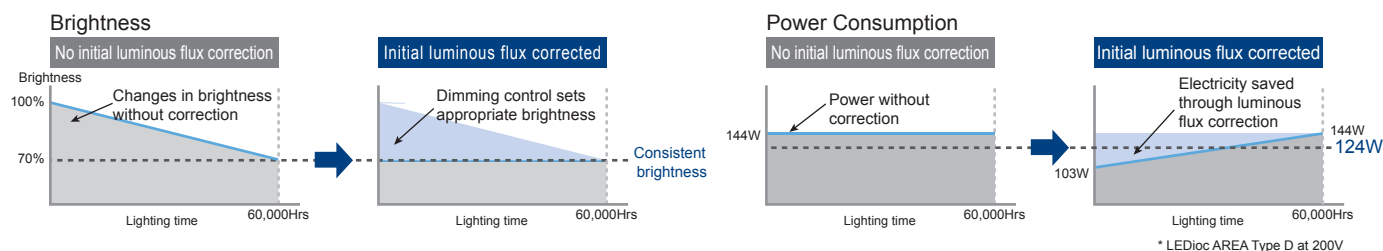


Only the globe part ON
(Green type)

* Light color cannot be changed for the ring part. However, the color of the globe can be switched between two colors (ex. daylight → warm white)

Initial luminous flux correction provided as a standard function

This control prevents excessive brightness after installation by maintaining a constant level of brightness until the end of its life, which cuts wasted power and contributes to energy conservation.



Lightning and surge protection voltage of 15kV (common mode)

Designed to withstand 15kV surges, this highly durable LED luminaire reduces the probability of breakdown when lightning strikes.

Long life of 60,000hours

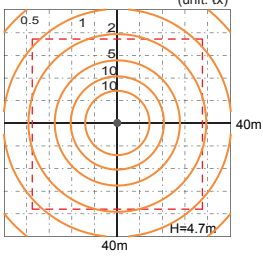
With a 60,000-hour life, this LED module lasts five times longer than a mercury lamp, dramatically reducing maintenance costs.

Works in a wide variety of environments and supports a wide range of working voltages

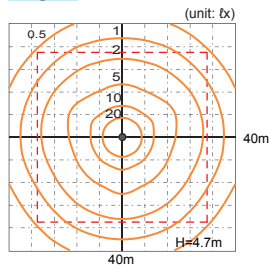
- A wide ambient operating temperature range of - 20°C to +35°C enables use in cold climates.
- Supports a wide range of voltages, from 100 to 242V.

Comparison example

400W HID landscape luminaire
(400W mercury lamp)
(HG5011C + HF400X)



LEDioc AREA Type D
(E5017SA9N)



400W HID landscape luminaire
(400W mercury lamp)
(HG5011C + HF400X)

LEDioc AREA Type D
(E5017SA9N)

Average illuminance
(Area: 30m×30m)

7.0lx

7.0lx

Same brightness

Annual amount
of CO₂ emissions*2

About 714kg
of CO₂

About 213kg of CO₂

**About a 501kg
reduction in CO₂**

Power consumption*1

415W
(HPF at 200V)

124W (at 200V, average)

**An energy saving
of roughly 70%**

Lifetime

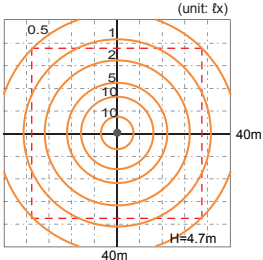
12,000hours

60,000hours

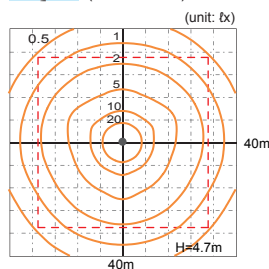
5 times

Comparison example

250W HID landscape luminaire
(250W mercury lamp)
(HG5011C + HF250X)



LEDioc AREA Type D
(E5019SA9N)



250W HID landscape luminaire
(250W mercury lamp)
(HG5011C + HF250X)

LEDioc AREA Type D
(E5019SA9N)

Average illuminance
(Area: 30m×30m)

4.0lx

5.0lx

Same brightness

Annual amount
of CO₂ emissions*2

About 447kg
of CO₂

About 163kg of CO₂

**About a 284kg
reduction in CO₂**

Power consumption*1

260W
(HPF at 200V)

95W (at 200V, average)

**An energy saving
of roughly 63%**

Lifetime

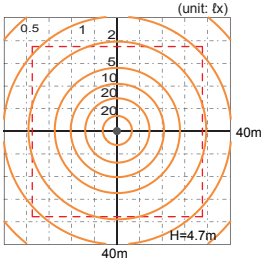
12,000hours

60,000hours

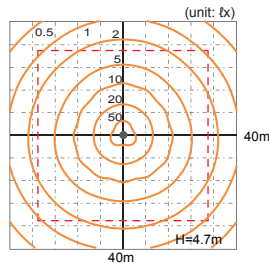
5 times

Comparison example

400W HID landscape luminaire
(400W mercury lamp)
(HG5011C + HF400X)



LEDioc AREA Type G
(E5021SA9N)



400W HID landscape luminaire
(400W mercury lamp)
(HG5011C + HF400X)

LEDioc AREA Type G
(E5021SA9N)

Average illuminance
(Area: 30m×30m)

7.0lx

8.7lx

Same brightness

Annual amount
of CO₂ emissions*2

About 714kg
of CO₂

About 301kg of CO₂

**About a 413kg
reduction in CO₂**

Power consumption*1

415W
(HPF at 200V)

175W (at 200V, average)

**An energy saving
of roughly 58%**

Lifetime

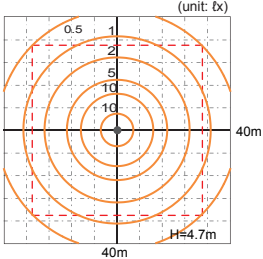
12,000hours

60,000hours

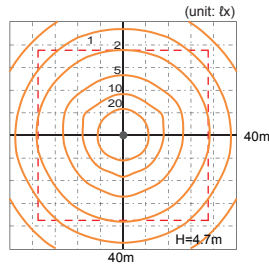
5 times

Comparison example

250W HID landscape luminaire
(250W mercury lamp)
(HG5011C + HF250X)



LEDioc AREA Type G
(E5023SA9N)



250W HID landscape luminaire
(250W mercury lamp)
(HG5011C + HF250X)

LEDioc AREA Type G
(E5023SA9N)

Average illuminance
(Area: 30m×30m)

4.0lx

6.7lx

Same brightness

Annual amount
of CO₂ emissions*2

About 447kg
of CO₂

About 253kg
of CO₂

**About a 194kg
reduction in CO₂**

Power consumption*1

260W
(HPF at 200V)

147W (at 200V, average)

**An energy saving
of roughly 43%**

Lifetime

12,000hours

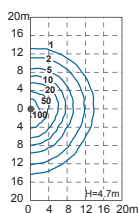
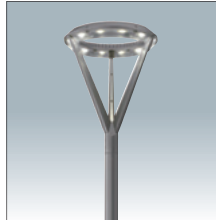
60,000hours

5 times

*1 Power consumption based on input voltages, mercury lamp: 200V (standard HPF ballast), LED: 200V.

*2 CO₂ emission volume is calculated based on 0.43kg of CO₂ per kWh.

LEDiOC AREA Type D



High efficacy type Initial luminous flux correction

Weather-proof

E5016SA9N

(Luminaire: E5016N-0 + power supply unit: WLE260V625M1/24-1)
(100 to 242V, 50/60Hz)

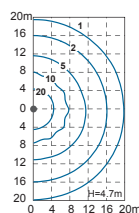
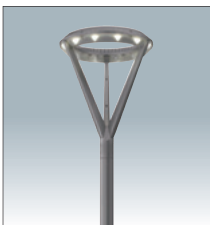
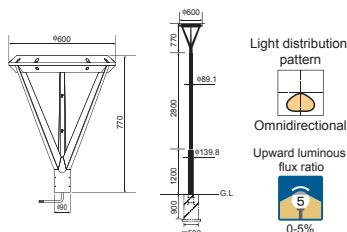
E5016SA9N/D Dimmable type

(Luminaire: E5016N-0 + power supply unit: WLE260V625M1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
9,460lm	127W (100V) 124W (200V/242V)
Luminous efficacy	LED module life
74.5lm/W (100V) 76.3lm/W (200V/242V)	60,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,000K (Daylight)	65

Specifications

Body: Diecast aluminum
Globe: Polycarbonate (clear)
Arm: Diecast aluminum
Finish color: Metallic silver
Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$
Weight: 9.8kg



Wide-span type Initial luminous flux correction

Weather-proof

E5017SA9N

(Luminaire: E5017N-0 + power supply unit: WLE260V625M1/24-1)
(100 to 242V, 50/60Hz)

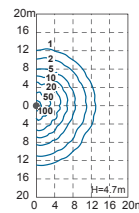
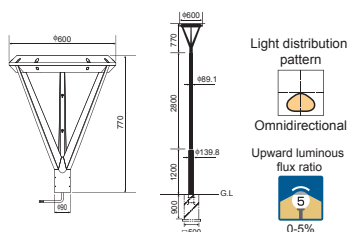
E5017SA9N/D Dimmable type

(Luminaire: E5017N-0 + power supply unit: WLE260V625M1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
8,780lm	127W (100V) 124W (200V/242V)
Luminous efficacy	LED module life
69.1lm/W (100V) 70.8lm/W (200V/242V)	60,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,000K (Daylight)	65

Specifications

Body: Diecast aluminum
Globe: Polycarbonate (clear)
Arm: Diecast aluminum
Finish color: Metallic silver
Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$
Weight: 9.8kg



High efficacy type Initial luminous flux correction

Weather-proof

E5018SA9N

(Luminaire: E5018N-0 + power supply unit: WLE260V625M1/24-1)
(100 to 242V, 50/60Hz)

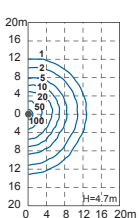
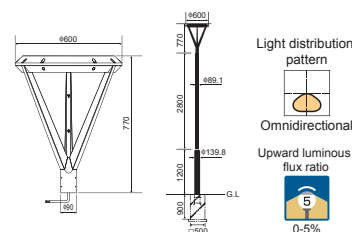
E5018SA9N/D Dimmable type

(Luminaire: E5018N-0 + power supply unit: WLE260V625M1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
6,640lm	96W (100V) 95W (200V) 96W (242V)
Luminous efficacy	LED module life
69.2lm/W (100V) 69.9lm/W (200V) 69.2lm/W (242V)	60,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,000K (Daylight)	65

Specifications

Body: Diecast aluminum
Globe: Polycarbonate (clear)
Arm: Diecast aluminum
Finish color: Metallic silver
Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$
Weight: 9.8kg



High efficacy type Initial luminous flux correction

Weather-proof

E5016SA9LW

(Luminaire: E5016LW-0 + power supply unit: WLE260V625M1/24-1)
(100 to 242V, 50/60Hz)

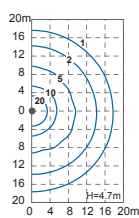
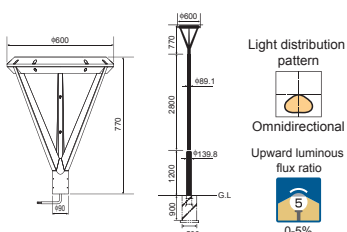
E5016SA9LW/D Dimmable type

(Luminaire: E5016LW-0 + power supply unit: WLE260V625M1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
6,480lm	127W (100V) 124W (200V/242V)
Luminous efficacy	LED module life
51.0lm/W (100V) 52.3lm/W (200V/242V)	60,000hours
Light color	Color rendering index (Ra)
Equivalent to 3,000K (Warm white)	85

Specifications

Body: Diecast aluminum
Globe: Polycarbonate (clear)
Arm: Diecast aluminum
Finish color: Metallic silver
Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$
Weight: 9.8kg



Wide-span type Initial luminous flux correction

Weather-proof

E5017SA9LW

(Luminaire: E5017LW-0 + power supply unit: WLE260V625M1/24-1)
(100 to 242V, 50/60Hz)

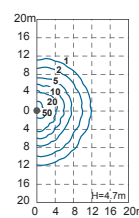
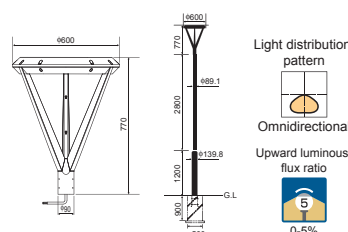
E5017SA9LW/D Dimmable type

(Luminaire: E5017LW-0 + power supply unit: WLE260V625M1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
6,020lm	127W (100V) 124W (200V/242V)
Luminous efficacy	LED module life
47.4lm/W (100V) 48.5lm/W (200V/242V)	60,000hours
Light color	Color rendering index (Ra)
Equivalent to 3,000K (Warm white)	85

Specifications

Body: Diecast aluminum
Globe: Polycarbonate (clear)
Arm: Diecast aluminum
Finish color: Metallic silver
Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$
Weight: 9.8kg



High efficacy type Initial luminous flux correction

Weather-proof

E5018SA9LW

(Luminaire: E5018LW-0 + power supply unit: WLE260V625M1/24-1)
(100 to 242V, 50/60Hz)

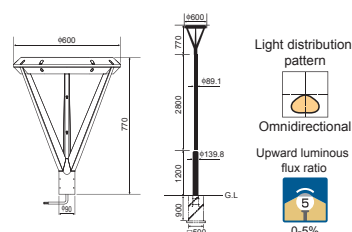
E5018SA9LW/D Dimmable type

(Luminaire: E5018LW-0 + power supply unit: WLE260V625M1/24-2)
(100 to 242V, 50/60Hz)

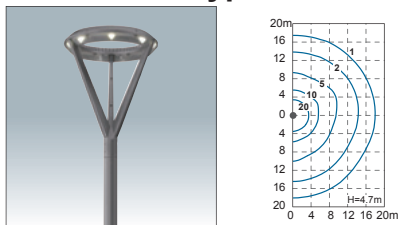
Rated luminous flux (luminaire luminous flux)	Power consumption (average)
4,550lm	96W (100V) 95W (200V) 96W (242V)
Luminous efficacy	LED module life
47.4lm/W (100V) 47.9lm/W (200V) 47.4lm/W (242V)	60,000hours
Light color	Color rendering index (Ra)
Equivalent to 3,000K (Warm white)	85

Specifications

Body: Diecast aluminum
Globe: Polycarbonate (clear)
Arm: Diecast aluminum
Finish color: Metallic silver
Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$
Weight: 9.8kg



LEDiOC AREA Type D



Wide-span type Initial luminous flux correction

Weather-proof

E5019SA9N

(Luminaire: E5019N-0 + power supply unit: WLE260V625M1/24-1)
(100 to 242V, 50/60Hz)

E5019SA9N/D Dimmable type

(Luminaire: E5019N-0 + power supply unit: WLE260V625M1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
6,330lm/W	96W (100V) 95W (200V) 96W (242V)

Luminous Efficacy		
65.9lm/W (100V)	66.6lm/W (200V)	65.9lm/W (242V)

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Daylight)	65

Specifications

Body: Diecast aluminum

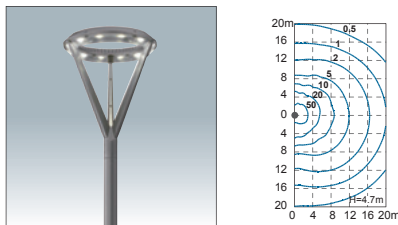
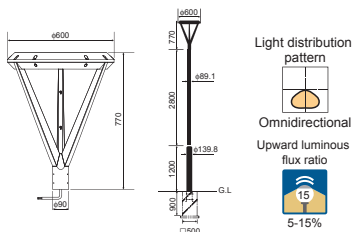
Globe: Polycarbonate (clear)

Arm: Diecast aluminum

Finish color: Metallic silver

Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$

Weight: 9.8kg



Wide distribution type Initial luminous flux correction

Weather-proof

E5024SA9N

(Luminaire: E5024N-0 + power supply unit: WLE260V625M1/24-1)
(100 to 242V, 50/60Hz)

E5024SA9N/D Dimmable type

(Luminaire: E5024N-0 + power supply unit: WLE260V625M1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
8,910lm	127W (100V) 124W (200V/242V)

Luminous Efficacy		
70.2lm/W (100V)	71.9lm/W (200V/242V)	

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Daylight)	65

Specifications

Body: Diecast aluminum

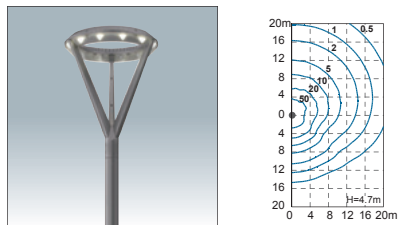
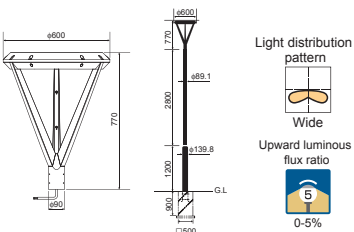
Globe: Polycarbonate (clear)

Arm: Diecast aluminum

Finish color: Metallic silver

Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$

Weight: 9.8kg



Front distribution type Initial luminous flux correction

Weather-proof

E5025SA9N

(Luminaire: E5025N-0 + power supply unit: WLE260V625M1/24-1)
(100 to 242V, 50/60Hz)

E5025SA9N/D Dimmable type

(Luminaire: E5025N-0 + power supply unit: WLE260V625M1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
9,010lm	127W (100V) 124W (200V/242V)

Luminous Efficacy		
70.9lm/W (100V)	72.7lm/W (200V/242V)	

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Daylight)	65

Specifications

Body: Diecast aluminum

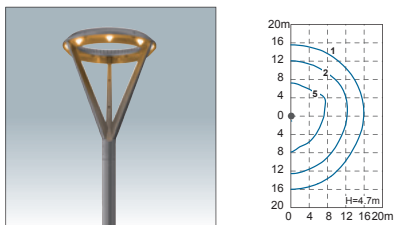
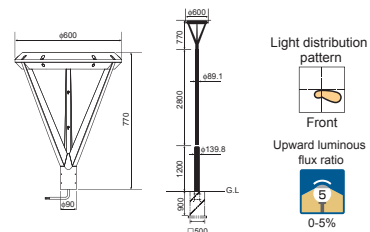
Globe: Polycarbonate (clear)

Arm: Diecast aluminum

Finish color: Metallic silver

Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$

Weight: 9.8kg



Wide-span type Initial luminous flux correction

Weather-proof

E5019SA9LW

(Luminaire: E5019LW-0 + power supply unit: WLE260V625M1/24-1)
(100 to 242V, 50/60Hz)

E5019SA9LW/D Dimmable type

(Luminaire: E5019LW-0 + power supply unit: WLE260V625M1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
4,340lm	96W (100V) 95W (200V) 96W (242V)

Luminous Efficacy		
45.2lm/W (100V)	45.7lm/W (200V)	45.2lm/W (242V)

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 3,000K (Warm white)	85

Specifications

Body: Diecast aluminum

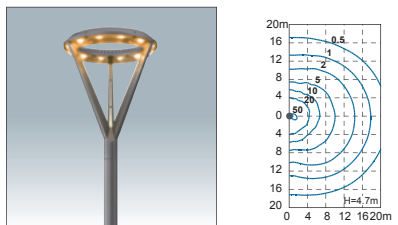
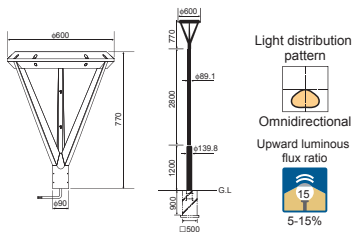
Globe: Polycarbonate (clear)

Arm: Diecast aluminum

Finish color: Metallic silver

Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$

Weight: 9.8kg



Wide distribution type Initial luminous flux correction

Weather-proof

E5024SA9LW

(Luminaire: E5024LW-0 + power supply unit: WLE260V625M1/24-1)
(100 to 242V, 50/60Hz)

E5024SA9LW/D Dimmable type

(Luminaire: E5024LW-0 + power supply unit: WLE260V625M1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
6,110lm	127W (100V) 124W (200V/242V)

Luminous Efficacy		
48.1lm/W (100V)	49.3lm/W (200V/242V)	

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 3,000K (Warm white)	85

Specifications

Body: Diecast aluminum

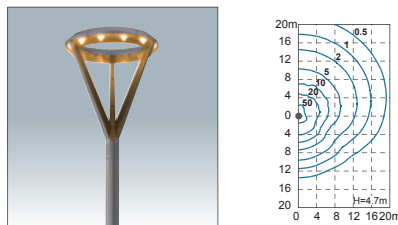
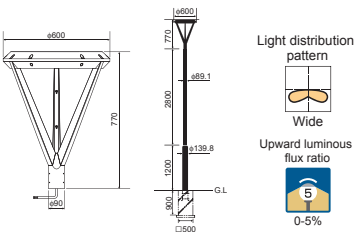
Globe: Polycarbonate (clear)

Arm: Diecast aluminum

Finish color: Metallic silver

Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$

Weight: 9.8kg



Front distribution type Initial luminous flux correction

Weather-proof

E5025SA9LW

(Luminaire: E5025LW-0 + power supply unit: WLE260V625M1/24-1)
(100 to 242V, 50/60Hz)

E5025SA9LW/D Dimmable type

(Luminaire: E5025LW-0 + power supply unit: WLE260V625M1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
6,170lm	127W (100V) 124W (200V/242V)

Luminous Efficacy		
48.6lm/W (100V)	49.8lm/W (200V/242V)	

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 3,000K (Warm white)	85

Specifications

Body: Diecast aluminum

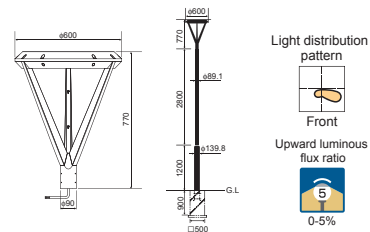
Globe: Polycarbonate (clear)

Arm: Diecast aluminum

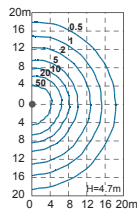
Finish color: Metallic silver

Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$

Weight: 9.8kg



LEDiOC AREA Type G



High efficacy type Initial luminous flux correction

Weather-proof

E5020SA9N

(Luminaire: E5020N-0 + power supply unit: WLE260V625M2C1/24-1)
(100 to 242V, 50/60Hz)

E5020SA9N/D Dimmable type

(Luminaire: E5020N-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power consumption (average)	
11,800lm		180W (100V) 175W (200V/242V)	
Luminous Efficacy			
65.6lm/W (100V) 67.4lm/W (200V/242V)			
LED Module Life		Light Color	Color Rendering Index (Ra)
60,000hours		Equivalent to 5,000K (Daylight)	65

Specifications

Body: Diecast aluminum

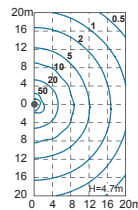
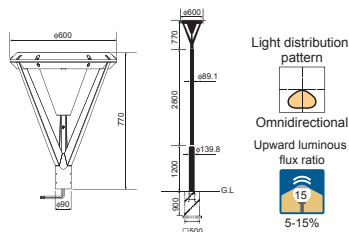
Globe: Polycarbonate (ring: clear, center: milky white)

Arm: Diecast aluminum

Finish color: Metallic silver

Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$

Weight: 13.6kg



Wide-span type Initial luminous flux correction

Weather-proof

E5021SA9N

(Luminaire: E5021N-0 + power supply unit: WLE260V625M2C1/24-1)
(100 to 242V, 50/60Hz)

E5021SA9N/D Dimmable type

(Luminaire: E5021N-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power consumption (average)	
11,100lm		180W (100V) 175W (200V/242V)	
Luminous Efficacy			
61.7lm/W (100V) 63.4lm/W (200V/242V)			
LED Module Life	Light Color	Color Rendering Index (Ra)	
60,000hours	Equivalent to 5,000K (Daylight)	65	

Specifications

Body: Diecast aluminum

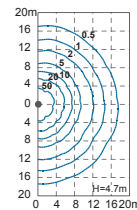
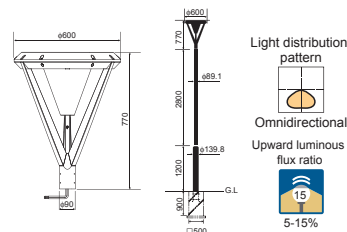
Globe: Polycarbonate (ring: clear, center: milky white)

Arm: Diecast aluminum

Finish color: Metallic silver

Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$

Weight: 13.6kg



High efficacy type Initial luminous flux correction

Weather-proof

E5022SA9N

(Luminaire: E5022N-0 + power supply unit: WLE260V625M2C1/24-1)
(100 to 242V, 50/60Hz)

E5022SA9N/D Dimmable type

(Luminaire: E5022N-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power consumption (average)	
8,980lm		150W (100V) 147W (200V/242V)	
Luminous Efficacy			
59.9lm/W (100V) 61.1lm/W (200V/242V)			
LED Module Life		Light Color	Color Rendering Index (Ra)
60,000hours		Equivalent to 5,000K (Daylight)	65

Specifications

Body: Diecast aluminum

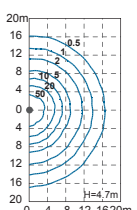
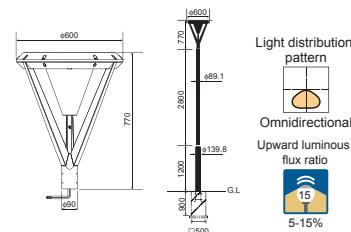
Globe: Polycarbonate (ring: clear, center: milky white)

Arm: Diecast aluminum

Finish color: Metallic silver

Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$

Weight: 13.6kg



High efficacy type Initial luminous flux correction

Weather-proof

E5020SA9LW

(Luminaire: E5020LW-0 + power supply unit: WLE260V625M2C1/24-1)
(100 to 242V, 50/60Hz)

E5020SA9LW/D Dimmable type

(Luminaire: E5020LW-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power consumption (average)	
8.090lm		180W (100V) 175W (200V/242V)	
Luminous Efficacy			
44.9lm/W (100V) 46.2lm/W (200V/242V)			
LED Module Life	Light Color	Color Rendering Index (Ra)	
60,000hours	Equivalent to 3,000K (Warm white)	85	

Specifications

Body: Diecast aluminum

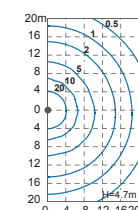
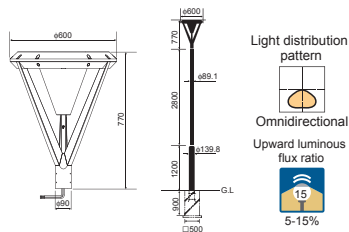
Globe: Polycarbonate (ring: clear, center: milky white)

Arm: Diecast aluminum

Finish color: Metallic silver

Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$

Weight: 13.6kg



Wide-span type Initial luminous flux correction

Weather-proof

E5021SA9LW

(Luminaire: E5021LW-0 + power supply unit: WLE260V625M2C1/24-1)
(100 to 242V, 50/60Hz)

E5021SA9LW/D Dimmable type

(Luminaire: E5021LW-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power consumption (average)	
7,630lm		180W (100V) 175W (200V/242V)	
Luminous Efficacy			
42.4lm/W (100V) 43.6lm/W (200V/242V)			
LED Module Life	Light Color	Color Rendering Index (Ra)	
60,000hours	Equivalent to 3,000K (Warm white)	85	

Specifications

Body: Diecast aluminum

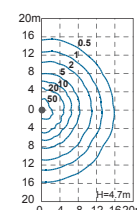
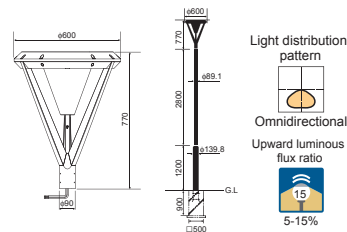
Globe: Polycarbonate (ring: clear, center: milky white)

Arm: Diecast aluminum

Finish color: Metallic silver

Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$

Weight: 13.6kg



High efficacy type Initial luminous flux correction

Weather-proof

E5022SA9LW

(Luminaire: E5022LW-0 + power supply unit: WLE260V625M2C1/24-1)
(100 to 242V, 50/60Hz)

E5022SA9LW/D Dimmable type

(Luminaire: E5022LW-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power consumption (average)	
6,160lm		150W (100V) 147W (200V/242V)	
Luminous Efficacy			
41.1lm/W (100V) 41.9lm/W (200V/242V)			
LED Module Life	Light Color		Color Rendering Index (Ra)
60,000hours	Equivalent to 3,000K (Warm white)		85

Specifications

Body: Diecast aluminum

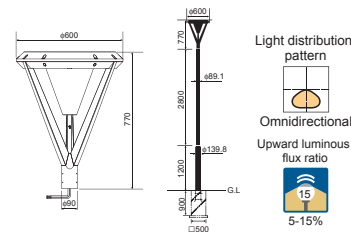
Globe: Polycarbonate (ring: clear, center: milky white)

Arm: Diecast aluminum

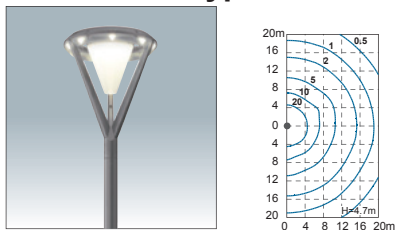
Finish color: Metallic silver

Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$

Weight: 13.6kg



LEDiOC AREA Type G



Wide-span type Initial luminous flux correction

Weather-proof

E5023SA9N

(Luminaire: E5023N-0 + power supply unit: WLE260V625M2C1/24-1)
(100 to 242V, 50/60Hz)

E5023SA9N/D Dimmable type

(Luminaire: E5023N-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)	
8,670lm	150W (100V) 147W (200V/242V)	
Luminous Efficacy		
57.8lm/W (100V) 59.0lm/W (200V/242V)		
LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Daylight)	65

Specifications

Body: Diecast aluminum

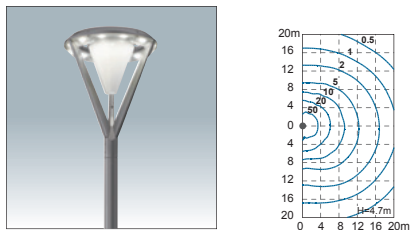
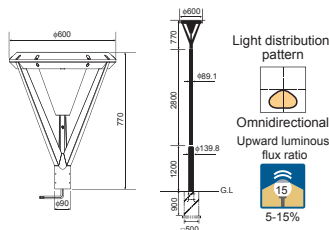
Globe: Polycarbonate (ring: clear, center: milky white)

Body: Diecast aluminum

Finish color: Metallic silver

Pole inserted dimension: 76.3 × 110mm

Weight: 13.6kg



Wide light distribution Initial luminous flux correction

Weather-proof

E5026SA9N

(Luminaire: E5026N-0 + power supply unit: WLE260V625M2C1/24-1)
(100 to 242V, 50/60Hz)

E5026SA9N/D Dimmable type

(Luminaire: E5026N-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)	
11,200lm	180W (100V) 175W (200V/242V)	
Luminous Efficacy		
62.2lm/W (100V) 64.0lm/W (200V/242V)		
LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Daylight)	65

Specifications

Body: Diecast aluminum

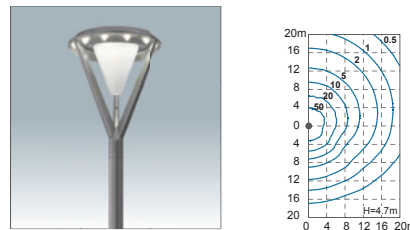
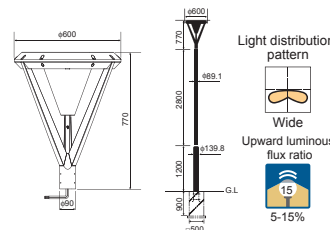
Globe: Polycarbonate (ring: clear, center: milky white)

Body: Diecast aluminum

Finish color: Metallic silver

Pole inserted dimension: 76.3 × 110mm

Weight: 13.6kg



Front light distribution Initial luminous flux correction

Weather-proof

E5027SA9N

(Luminaire: E5027N-0 + power supply unit: WLE260V625M2C1/24-1)
(100 to 242V, 50/60Hz)

E5027SA9N/D Dimmable type

(Luminaire: E5027N-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)	
11,300lm	180W (100V) 175W (200V/242V)	
Luminous Efficacy		
62.8lm/W (100V) 64.6lm/W (200V/242V)		
LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Daylight)	65

Specifications

Body: Diecast aluminum

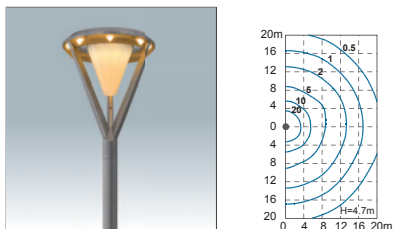
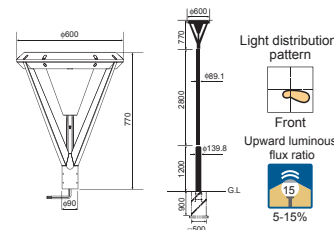
Globe: Polycarbonate (ring: clear, center: milky white)

Body: Diecast aluminum

Finish color: Metallic silver

Pole inserted dimension: 76.3 × 110mm

Weight: 13.6kg



Wide-span type Initial luminous flux correction

Weather-proof

E5023SA9LW

(Luminaire: E5023LW-0 + power supply unit: WLE260V625M2C1/24-1)
(100 to 242V, 50/60Hz)

E5023SA9LW/D Dimmable type

(Luminaire: E5023LW-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)	
5,940lm	150W (100V) 147W (200V/242V)	
Luminous Efficacy		
39.6lm/W (100V) 40.4lm/W (200V/242V)		
LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 3,000K (Warm white)	85

Specifications

Body: Diecast aluminum

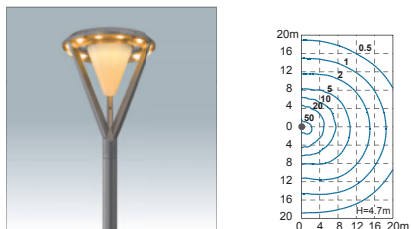
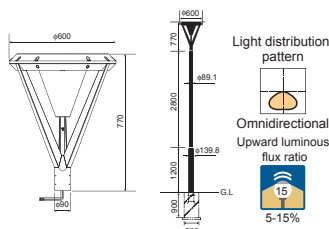
Globe: Polycarbonate (ring: clear, center: milky white)

Body: Diecast aluminum

Finish color: Metallic silver

Pole inserted dimension: 76.3 × 110mm

Weight: 13.6kg



Wide light distribution Initial luminous flux correction

Weather-proof

E5026SA9LW

(Luminaire: E5026LW-0 + power supply unit: WLE260V625M2C1/24-1)
(100 to 242V, 50/60Hz)

E5026SA9LW/D Dimmable type

(Luminaire: E5026LW-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)	
7,710lm	180W (100V) 175W (200V/242V)	
Luminous Efficacy		
42.8lm/W (100V) 44.1lm/W (200V/242V)		
LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 3,000K (Warm white)	85

Specifications

Body: Diecast aluminum

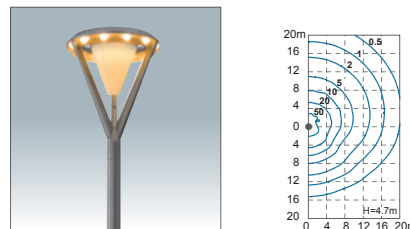
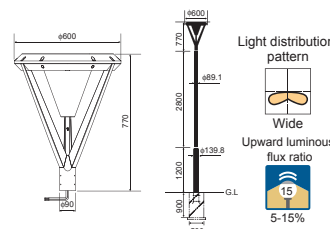
Globe: Polycarbonate (ring: clear, center: milky white)

Body: Diecast aluminum

Finish color: Metallic silver

Pole inserted dimension: 76.3 × 110mm

Weight: 13.6kg



Front light distribution Initial luminous flux correction

Weather-proof

E5027SA9LW

(Luminaire: E5027LW-0 + power supply unit: WLE260V625M2C1/24-1)
(100 to 242V, 50/60Hz)

E5027SA9LW/D Dimmable type

(Luminaire: E5027LW-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)	
7,780lm	180W (100V) 175W (200V/242V)	
Luminous Efficacy		
43.2lm/W (100V) 44.5lm/W (200V/242V)		
LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 3,000K (Warm white)	85

Specifications

Body: Diecast aluminum

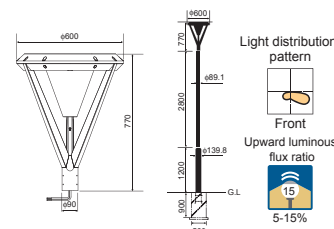
Globe: Polycarbonate (ring: clear, center: milky white)

Body: Diecast aluminum

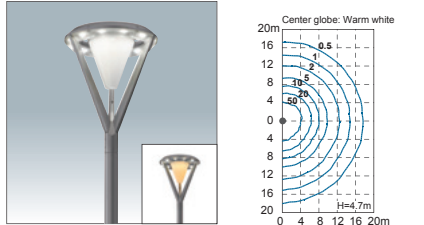
Finish color: Metallic silver

Pole inserted dimension: 76.3 × 110mm

Weight: 13.6kg



LEDiDC AREA Type G



High efficacy type Initial luminous flux correction

Dimmable type Weather-proof

E5028SA9N/D

(Luminaire: E5028N-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
[5,000K] 11,800lm [3,000K] 11,000lm	180W (100V) 175W (200V/242V)

Luminous Efficacy		
[5,000K] 65.6lm/W (100V) 67.4lm/W (200V/242V)		
[3,000K] 61.1lm/W (100V) 62.9lm/W (200V/242V)		

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Daylight)	65

Specifications

Body: Diecast aluminum

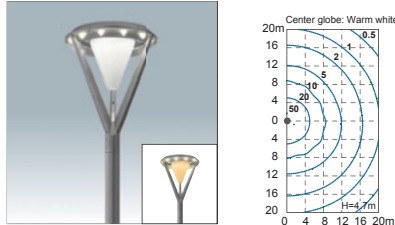
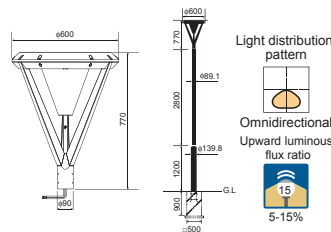
Globe: Polycarbonate (ring: clear, center: milky white)

Body: Diecast aluminum

Finish color: Metallic silver

Pole inserted dimension: 76.3 × 110mm

Weight: 14.5kg



Wide-span type Initial luminous flux correction

Dimmable type Weather-proof

E5029SA9N/D

(Luminaire: E5029N-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
[5,000K] 11,100lm [3,000K] 10,300lm	180W (100V) 175W (200V/242V)

Luminous Efficacy		
[5,000K] 61.7lm/W (100V) 63.4lm/W (200V/242V)		
[3,000K] 57.2lm/W (100V) 58.9lm/W (200V/242V)		

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Daylight)	65

Specifications

Body: Diecast aluminum

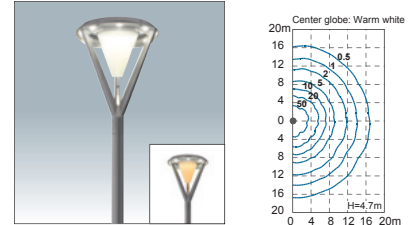
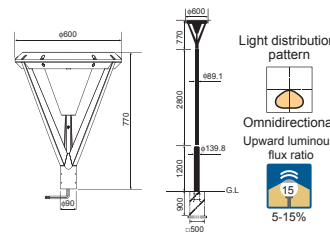
Globe: Polycarbonate (ring: clear, center: milky white)

Body: Diecast aluminum

Finish color: Metallic silver

Pole inserted dimension: 76.3 × 110mm

Weight: 14.5kg



High efficacy type Initial luminous flux correction

Dimmable type Weather-proof

E5030SA9N/D

(Luminaire: E5030N-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
[5,000K] 8,980lm [3,000K] 8,250lm	150W (100V) 147W (200V/242V)

Luminous Efficacy		
[5,000K] 59.9lm/W (100V) 61.1lm/W (200V/242V)		
[3,000K] 55.0lm/W (100V) 56.1lm/W (200V/242V)		

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Daylight)	65

Specifications

Body: Diecast aluminum

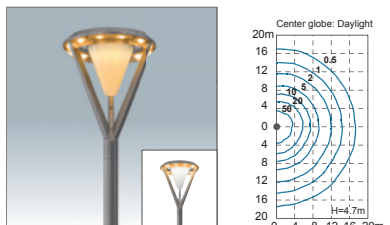
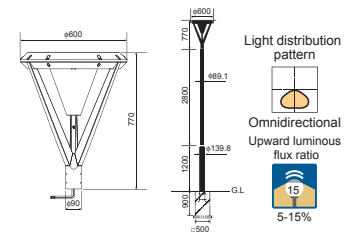
Globe: Polycarbonate (ring: clear, center: milky white)

Body: Diecast aluminum

Finish color: Metallic silver

Pole inserted dimension: 76.3 × 110mm

Weight: 14.5kg



High efficacy type Initial luminous flux correction

Dimmable type Weather-proof

E5028SA9LW/D

(Luminaire: E5028LW-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
[5,000K] 8,820lm [3,000K] 8,090lm	180W (100V) 175W (200V/242V)

Luminous Efficacy		
[5,000K] 49.0lm/W (100V) 50.4lm/W (200V/242V)		
[3,000K] 44.9lm/W (100V) 46.2lm/W (200V/242V)		

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 3,000K (Warm white)	85

Specifications

Body: Diecast aluminum

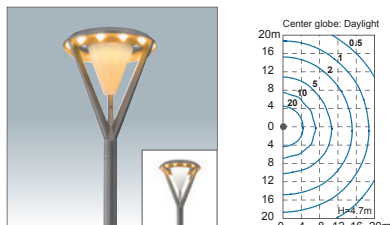
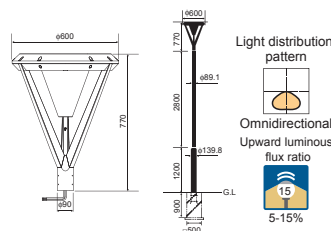
Globe: Polycarbonate (ring: clear, center: milky white)

Body: Diecast aluminum

Finish color: Metallic silver

Pole inserted dimension: 76.3 × 110mm

Weight: 14.5kg



Wide-span type Initial luminous flux correction

Dimmable type Weather-proof

E5029SA9LW/D

(Luminaire: E5029LW-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
[5,000K] 8,360lm [3,000K] 7,630lm	180W (100V) 175W (200V/242V)

Luminous Efficacy		
[5,000K] 46.4lm/W (100V) 47.8lm/W (200V/242V)		
[3,000K] 42.4lm/W (100V) 43.6lm/W (200V/242V)		

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 3,000K (Warm white)	85

Specifications

Body: Diecast aluminum

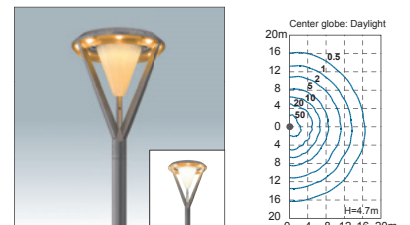
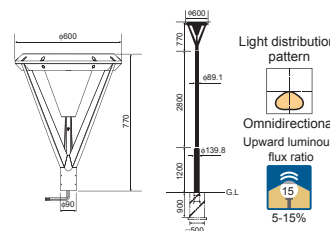
Globe: Polycarbonate (ring: clear, center: milky white)

Body: Diecast aluminum

Finish color: Metallic silver

Pole inserted dimension: 76.3 × 110mm

Weight: 14.5kg



High efficacy type Initial luminous flux correction

Dimmable type Weather-proof

E5030SA9LW/D

(Luminaire: E5030LW-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
[5,000K] 6,890lm [3,000K] 6,160lm	150W (100V) 147W (200V/242V)

Luminous Efficacy		
[5,000K] 45.9lm/W (100V) 46.9lm/W (200V/242V)		
[3,000K] 41.1lm/W (100V) 41.9lm/W (200V/242V)		

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 3,000K (Warm white)	85

Specifications

Body: Diecast aluminum

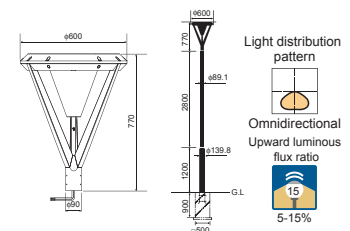
Globe: Polycarbonate (ring: clear, center: milky white)

Body: Diecast aluminum

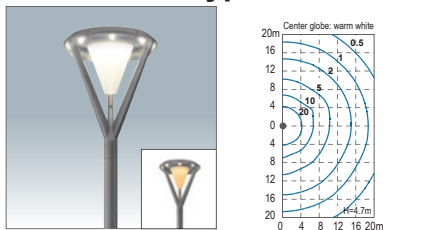
Finish color: Metallic silver

Pole inserted dimension: 76.3 × 110mm

Weight: 14.5kg



LEDiOC AREA Type G



Wide-span type Initial luminous flux correction
Dimmable type Weather-proof

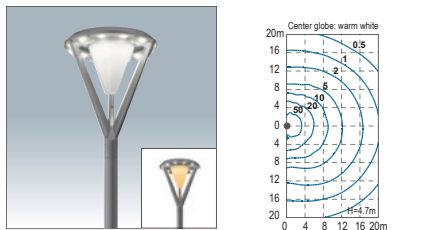
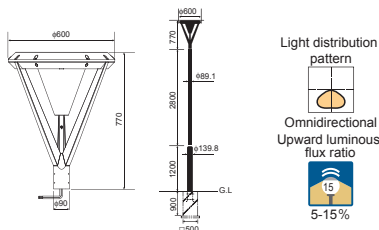
E5031SA9N/D

(Luminaire: E5031N-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
[5,000K] 8,670lm [3,000K] 7,930lm	150W (100V) 147W (200V/242V)
Luminous Efficacy	
[5,000K] 57.8lm/W (100V) 59.0lm/W (200V/242V)	
[3,000K] 52.9lm/W (100V) 53.9lm/W (200V/242V)	
LED Module Life	Light Color
60,000hours	Equivalent to 5,000K (Daylight)
Color Rendering Index (Ra)	
65	

Specifications

Body: Diecast aluminum
Globe: polycarbonate (ring: transparent, center: milky white)
Arm: Diecast aluminum
Finish color: Metallic silver
Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$
Weight: 14.5kg



Wide distribution light type Initial luminous flux correction
Dimmable type Weather-proof

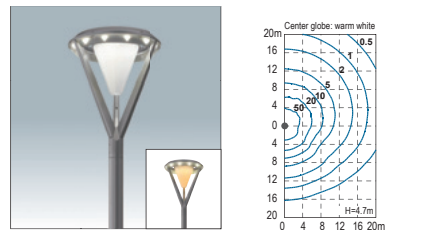
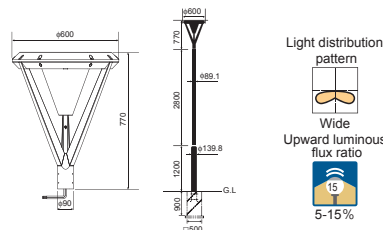
E5032SA9N/D

(Luminaire: E5032N-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
[5,000K] 11,200lm [3,000K] 10,500lm	180W (100V) 175W (200V/242V)
Luminous Efficacy	
[5,000K] 62.2lm/W (100V) 64.0lm/W (200V/242V)	
[3,000K] 58.3lm/W (100V) 60.0lm/W (200V/242V)	
LED Module Life	Light Color
60,000hours	Equivalent to 5,000K (Daylight)
Color Rendering Index (Ra)	
65	

Specifications

Body: Diecast aluminum
Globe: polycarbonate (ring: transparent, center: milky white)
Arm: Diecast aluminum
Finish color: Metallic silver
Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$
Weight: 14.5kg



Front distribution type Initial luminous flux correction
Dimmable type Weather-proof

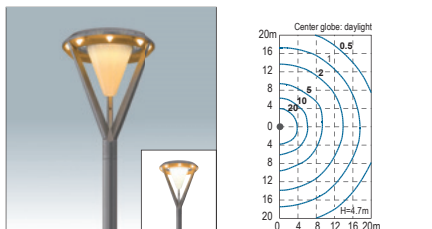
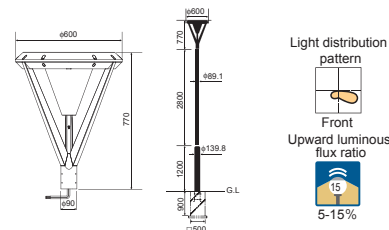
E5033SA9N/D

(Luminaire: E5033N-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
[5,000K] 11,300lm [3,000K] 10,600lm	180W (100V) 175W (200V/242V)
Luminous Efficacy	
[5,000K] 62.8lm/W (100V) 64.6lm/W (200V/242V)	
[3,000K] 58.9lm/W (100V) 60.6lm/W (200V/242V)	
LED Module Life	Light Color
60,000hours	Equivalent to 5,000K (Daylight)
Color Rendering Index (Ra)	
65	

Specifications

Body: Diecast aluminum
Globe: polycarbonate (ring: transparent, center: milky white)
Arm: Diecast aluminum
Finish color: Metallic silver
Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$
Weight: 14.5kg



Wide-span type Initial luminous flux correction
Dimmable type Weather-proof

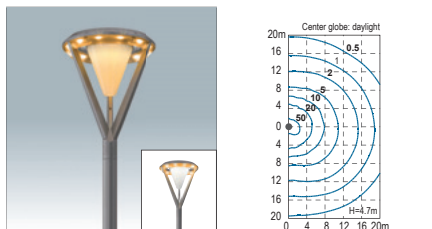
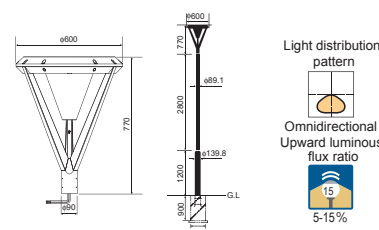
E5031SA9LW/D

(Luminaire: E5031LW-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
[5,000K] 6,890lm [3,000K] 5,940lm	150W (100V) 147W (200V/242V)
Luminous Efficacy	
[5,000K] 45.9lm/W (100V) 46.9lm/W (200V/242V)	
[3,000K] 39.6lm/W (100V) 40.4lm/W (200V/242V)	
LED Module Life	Light Color
60,000hours	Equivalent to 3,000K (Warm white)
Color Rendering Index (Ra)	
85	

Specifications

Body: Diecast aluminum
Globe: polycarbonate (ring: transparent, center: milky white)
Arm: Diecast aluminum
Finish color: Metallic silver
Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$
Weight: 14.5kg



Wide distribution light type Initial luminous flux correction
Dimmable type Weather-proof

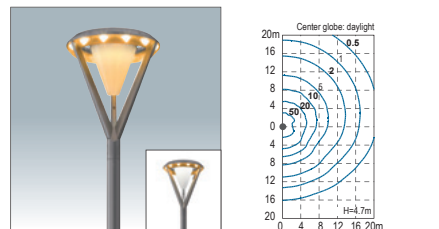
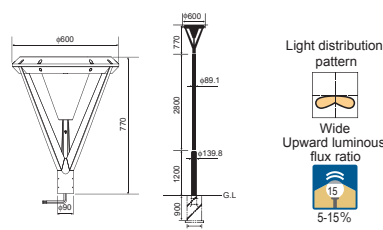
E5032SA9LW/D

(Luminaire: E5032LW-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption (average)
[5,000K] 8,450lm [3,000K] 7,710lm	180W (100V) 175W (200V/242V)
Luminous Efficacy	
[5,000K] 46.9lm/W (100V) 48.3lm/W (200V/242V)	
[3,000K] 42.8lm/W (100V) 44.1lm/W (200V/242V)	
LED Module Life	Light Color
60,000hours	Equivalent to 3,000K (Warm white)
Color Rendering Index (Ra)	
85	

Specifications

Body: Diecast aluminum
Globe: polycarbonate (ring: transparent, center: milky white)
Arm: Diecast aluminum
Finish color: Metallic silver
Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$
Weight: 14.5kg



Front distribution type Initial luminous flux correction
Dimmable type Weather-proof

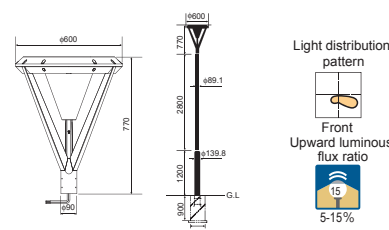
E5033SA9LW/D

(Luminaire: E5033LW-0 + power supply unit: WLE260V625M2C1/24-2)
(100 to 242V, 50/60Hz)

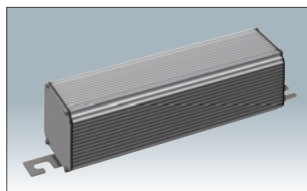
Rated luminous flux (luminaire luminous flux)	Power consumption (average)
[5,000K] 8,510lm [3,000K] 7,780lm	180W (100V) 175W (200V/242V)
Luminous Efficacy	
[5,000K] 47.3lm/W (100V) 48.6lm/W (200V/242V)	
[3,000K] 43.2lm/W (100V) 44.5lm/W (200V/242V)	
LED Module Life	Light Color
60,000hours	Equivalent to 3,000K (Warm white)
Color Rendering Index (Ra)	
85	

Specifications

Body: Diecast aluminum
Globe: polycarbonate (ring: transparent, center: milky white)
Arm: Diecast aluminum
Finish color: Metallic silver
Pole inserted dimension: $\phi 76.3 \times 110\text{mm}$
Weight: 14.5kg



Power supply unit



For Type D For inside pole
15kV surge arrester unit

WLE260V625M1/24-1

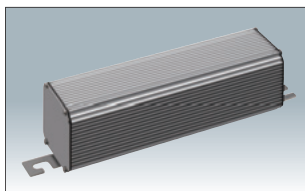
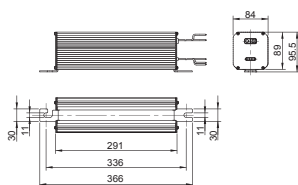
(100 to 242V, 50/60Hz)

Body: Aluminum

Weight: 2.4kg

Applicable pole: Insertable pole $\phi 130.8$ (5B) or larger

Lead wire: 0.5m



For Type D For inside pole
15kV surge arrester unit

WLE260V625M1/24-2

(100 to 242V, 50/60Hz)

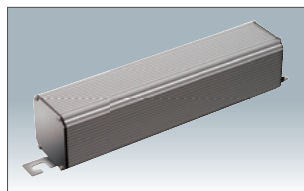
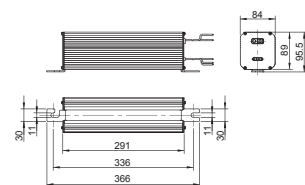
Body: Aluminum

Weight: 2.4kg

Applicable pole: Insertable pole $\phi 130.8$ (5B) or larger

Lead wire: 0.5m

* When using dimming control, combine with the designated dimming controller (model ILSCON01A).



For Type D For inside pole
15kV surge arrester unit

WLE260V625M2C1/24-1

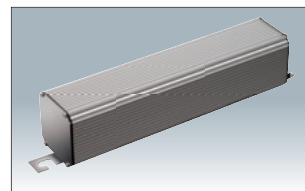
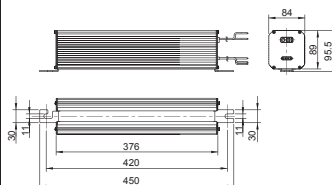
(100 to 242V, 50/60Hz)

Body: Aluminum

Weight: 3.1kg

Applicable pole: Insertable pole $\phi 130.8$ (5B) or larger

Lead wire: 0.6m



Type G for dimming For inside pole
15kV surge arrester unit

WLE260V625M2C1/24-2

(100 to 242V, 50/60Hz)

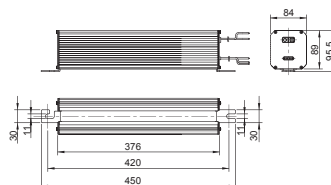
Body: Aluminum

Weight: 3.2kg

Applicable pole: Insertable pole $\phi 130.8$ or larger

Lead wire: 0.6m

* When using dimming control, combine with the designated dimming controller (model ILSCON01A).



Dimming controller

**ILSCON01A**

(100 to 240V, 50/60Hz)

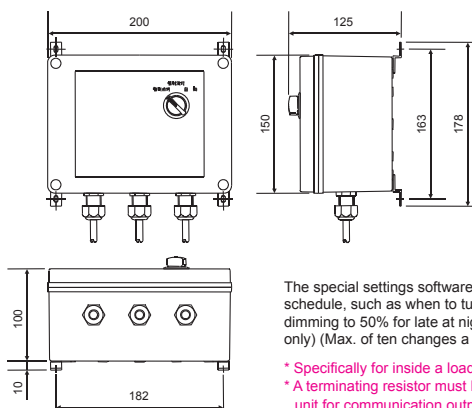
Specifications

Body: ABS resin (white gray)

Bracket: Stainless

Weight: 2.0kg

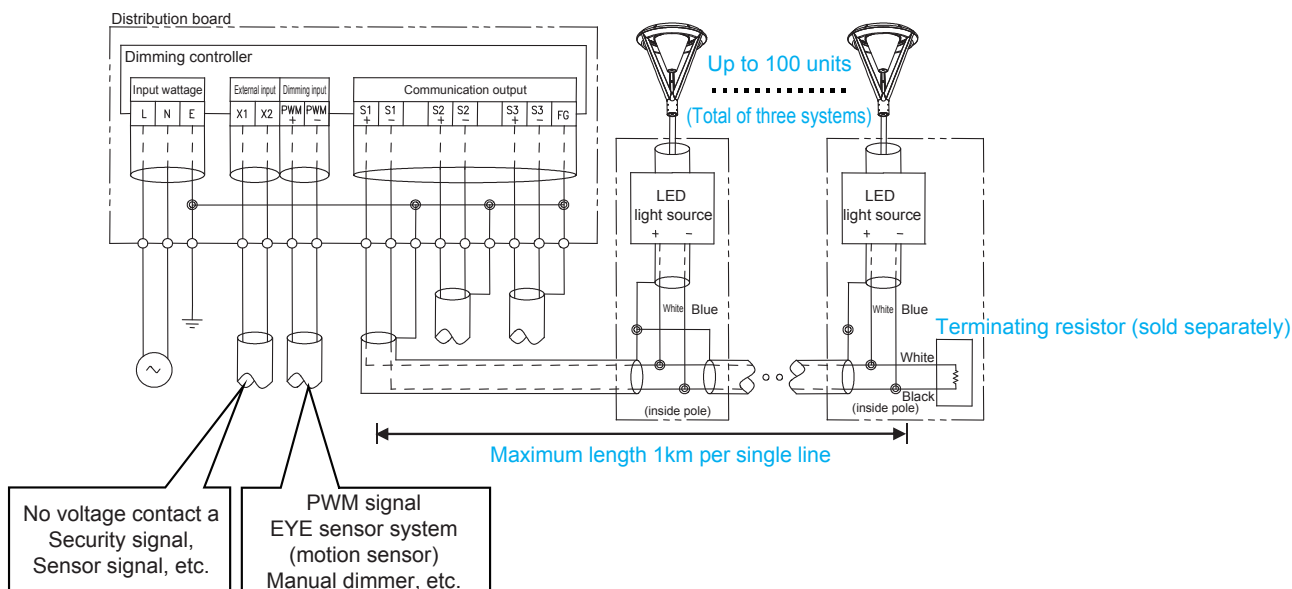
Lead wire: 0.15m



The special settings software allows the use to set up a schedule, such as when to turn lighting on/off for the day, dimming to 50% for late at night or switching colors (type G only) (Max. of ten changes a day).

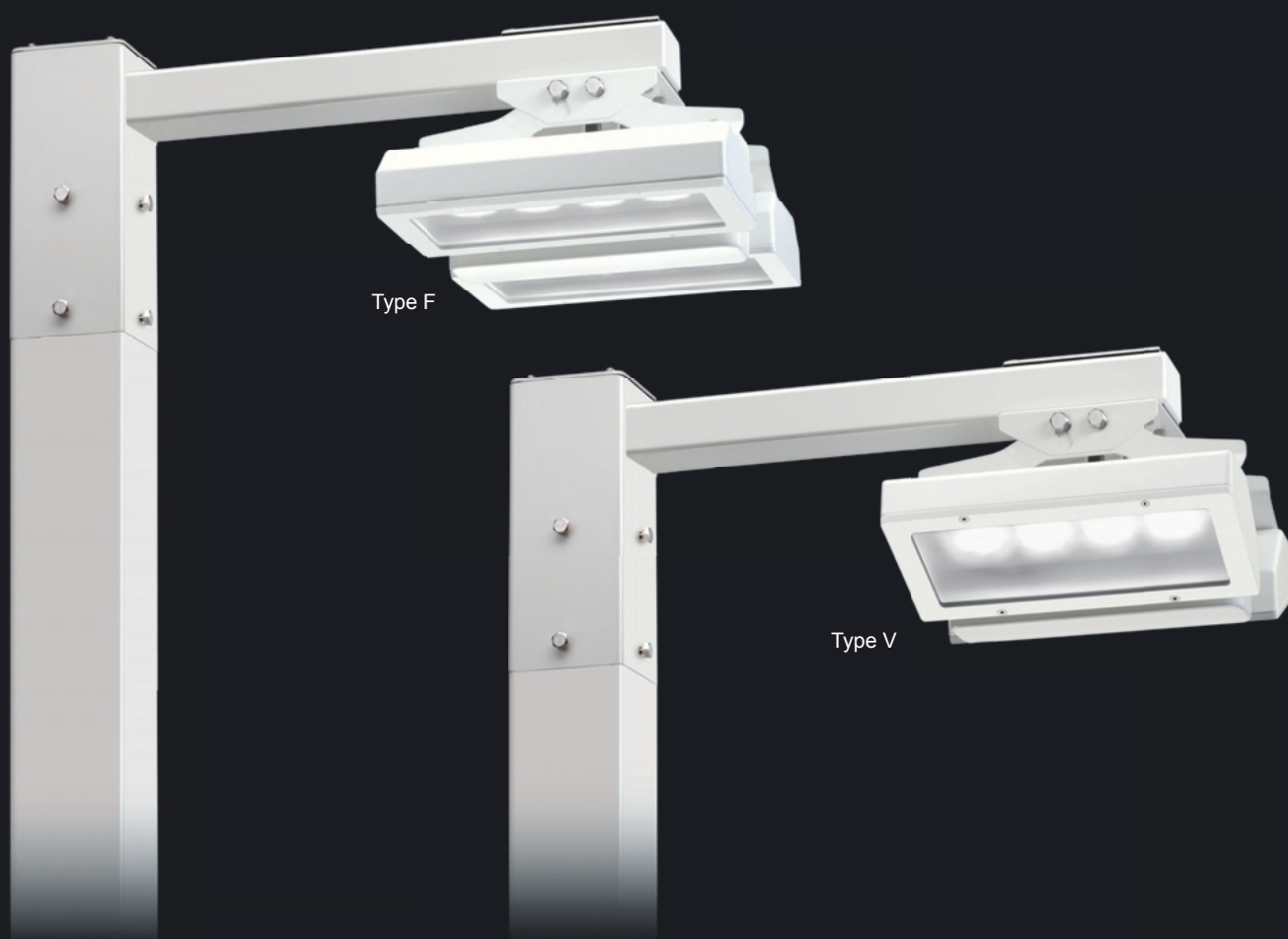
* Specifically for inside a load center. Cannot be used outdoors.
* A terminating resistor must be installed on the last power supply unit for communication output (type number ILSCON01A-R).

• Wiring diagram



LEDiOC CEILING HB

Area lights Type F/Type V



Higher brightness than a 400W metal halide lamp
High-output: 20,000lm

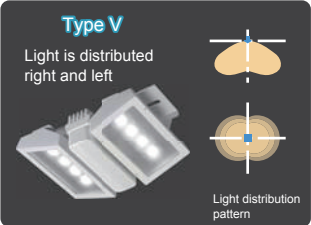
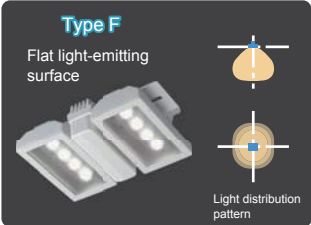
- Luminous efficacy: 105lm/W. Area luminaire with the industry's highest luminous efficacy
- As the luminaire comes in two types of shape, three types of beam distribution and is installed at an angle, it is easy to find a model that suits your application.

High efficacy of 105lm/W (daylight type)

The rated luminous flux (luminaire luminous flux) is 20,000lm and as an LED luminaire it possesses a luminous efficacy of 105lm/W, the highest in the industry.

Extensive Product Lineup

The LEDiOC Ceiling Type F has a flat light-emitting surface that suppresses light pollution, while the Type V distributes light more widely to the right and left. Each comes in a lineup that features narrow, medium and wide beam distribution models. This allows you to select the model that best suits your needs.



Area light with swivel mount

The area light bracket allows you to install the luminaire at an angle of up to 30 degrees.

Special arm model: HA1001/HB



LEDiOC CEILING HB initial luminous flux correction unit

By connecting the timer unit, which automatically dims the light in line with LED luminaire lumen maintenance, it dims it to the designed luminous flux when newly installed (approx. 70% of initial luminous flux) thus realizing energy savings. In addition, since this reduces the load on the LED and power supply unit, the service life of the LEDiOC CEILING HB is extended up to 60,000hours (standard 40,000hours).



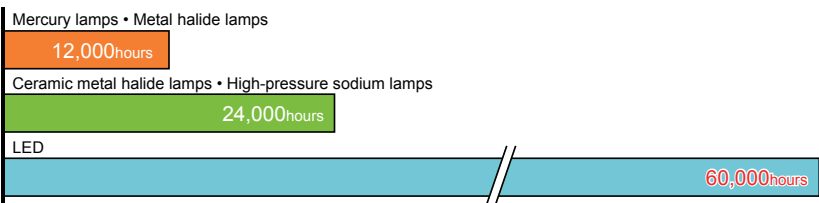
For LEDiOC CEILING HB
Initial luminous flux correction unit
ILSDM02A-HB

- By connecting the applicable unit to a power supply synchronized with the LEDiOC CEILING HB, it automatically counts the time in use and automatically controls the dimming ratio based on the cumulative time, dimming the luminaire.
- A maximum of 24 LEDiOC CEILING HB luminaires can be connected per compatible unit.
- The maximum wire length of 200m can broaden the options for installation locations. (Signal wire: When using CPEVφ0.9)
- Complies to IP65 for excellent water proof performance.
- Any position--unrestricted installation orientation.
- Power consumption of 3W makes for a true low-power control unit.

Long life of 60,000hours (when using initial luminous flux correction unit)

The LEDiOC Ceiling light provides a LED module life of 60,000hours. It boasts a life that is more than 2.5 times that of an HID lamp, which contributes to substantial cost savings.

* When not a combination of a dimmable model and initial luminous flux correction unit, a LED module life is 40,000hours.



Low insect attraction

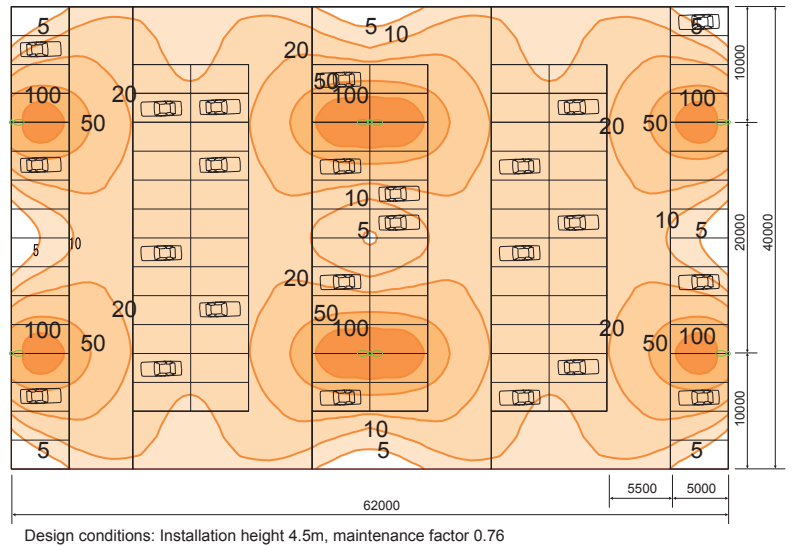
The LED emits hardly any light in the ultraviolet range that insects like and therefore attract fewer insects.

Comparison Example



HID lamp Area light (H804)
400W mercury lamp
(HF400X)

Average Illuminance
Driveway: 19.5lx
Garage: 30.4lx

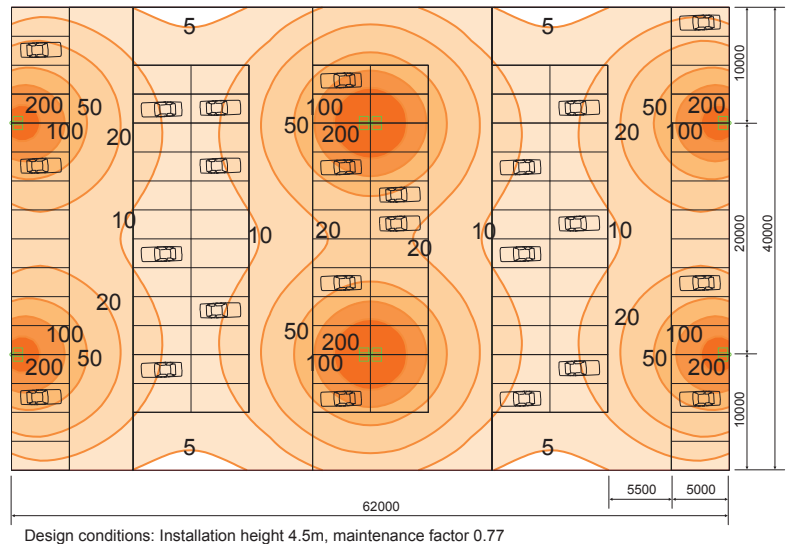


Same brightness



LEDioc CEILING HB Area light Type F
High-output Wide beam
(EHCL19743N/SA1/2.4)

Average Illuminance
Driveway: 19.2lx
Garage: 52.3lx



HID lamp Area light (H804)
400W mercury lamp
(HF400X)

LEDioc CEILING HB Area light Type F High-output (Wide beam)
(EHCL19743N/SA1/2.4)

Average illuminance (drive way)

19.5lx

19.2lx

Same brightness

Average illuminance (garage)

30.4lx

52.3lx

About 1.7 times as bright

Power consumption*1

3,320W
(415W×8)

1,488W
(186W×8)

55% energy savings

Annual CO₂ Emissions*2

5.7t of CO₂

2.6t of CO₂

About a 3.1t reduction in CO₂

Lifetime

12,000hours

60,000hours

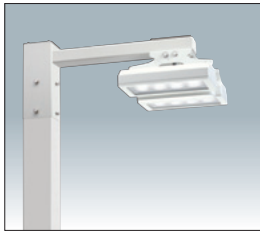
5 times

*1 Power consumption for a 200V mercury lamp (standard HPF ballast) and a LED lamp operating at 200V are shown.

*2 CO₂ emission volume is calculated based on 0.43kg of CO₂ per kWh.

Type F High-output

Narrow Beam



Weather-proof

EHCL19731N/SA1/2.4(Luminaire: EHCL19731N/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

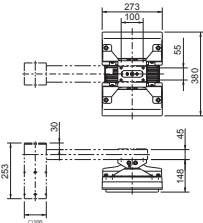
Rated luminous flux (luminaire luminous flux)		Power Consumption	
20,000lm		190W (100V) 186W (200V) 185W (240V)	
Luminous Efficacy			
105.3lm/W (100V) 107.5lm/W (200V) 108.1lm/W (240V)			
LED Module Life	Light Color	Color Rendering Index (Ra)	
60,000hours	Equivalent to 5,000K (Daylight)	70	

Specifications

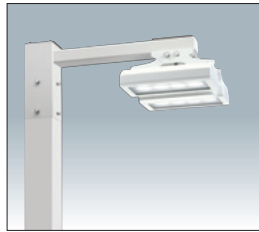
Body: Diecast aluminum
Frame: Diecast aluminum
Front glass: Embossed glass
Bracket: Stainless
Finish color: White
Weight: 10.7kg

* Above characteristics are available at an ambient temperature of +25°C.

* Dimmable and/or light color equivalents of 4,000K and 3,000K have to be special ordered.



Medium Beam



Weather-proof

EHCL19732N/SA1/2.4(Luminaire: EHCL19732N/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

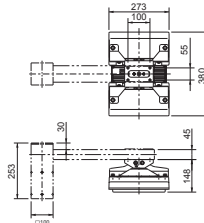
Rated luminous flux (luminaire luminous flux)	Power Consumption	
20,000lm	190W (100V) 186W (200V) 185W (240V)	
Luminous Efficacy		
105.3lm/W (100V) 107.5lm/W (200V) 108.1lm/W (240V)		
LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Daylight)	70

Specifications

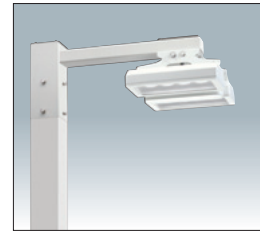
Body: Diecast aluminum
Frame: Diecast aluminum
Front glass: Embossed glass
Bracket: Stainless
Finish color: White
Weight: 10.7kg

* Above characteristics are available at an ambient temperature of +25°C.

* Dimmable and/or light color equivalents of 4,000K and 3,000K have to be special ordered.



Wide beam



Weather-proof

EHCL19733N/SA1/2.4(Luminaire: EHCL19733N/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

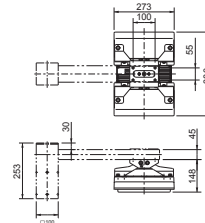
Rated luminous flux (luminaire luminous flux)		Power Consumption	
20,000lm		190W (100V) 186W (200V) 185W (240V)	
Luminous Efficacy			
105.3lm/W (100V) 107.5lm/W (200V) 108.1lm/W (240V)			
LED Module Life	Light Color	Color Rendering Index (Ra)	
60,000hours	Equivalent to 5,000K (Daylight)	70	

Specifications

Body: Diecast aluminum
Frame: Diecast aluminum
Front glass: Embossed glass
Bracket: Stainless
Finish color: White
Weight: 10.7kg

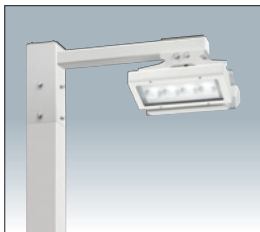
* Above characteristics are available at an ambient temperature of +25°C.

* Dimmable and/or light color equivalents of 4,000K and 3,000K have to be special ordered.



Type V High-output

Narrow beam



Weather-proof

EHCL19741N/SA1/2.4(Luminaire: EHCL19741N/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power Consumption	
20,000lm		190W (100V) 186W (200V) 185W (240V)	
Luminous Efficacy			
105.3lm/W (100V) 107.5lm/W (200V) 108.1lm/W (240V)			
LED Module Life	Light Color	Color Rendering Index (Ra)	
60,000hours	Equivalent to 5,000K (Daylight)	70	

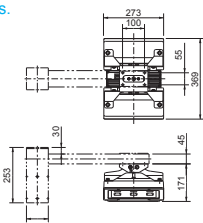
Specifications

Body: Diecast aluminum
Frame: Diecast aluminum
Front glass: Embossed glass
Bracket: Stainless
Finish color: White
Weight: 10.7kg

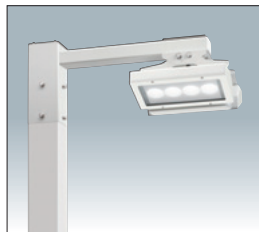
* Above characteristics are available at an ambient temperature of +25°C.

* Dimmable and/or light color equivalents of 4,000K and 3,000K have to be special ordered.

* Dimmable types can be made to special order, so please contact us.



Medium beam



Weather-proof

EHCL19742N/SA1/2.4(Luminaire: EHCL19742N/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power Consumption	
20,000lm		190W (100V) 186W (200V) 185W (240V)	
Luminous Efficacy			
105.3lm/W (100V) 107.5lm/W (200V) 108.1lm/W (240V)			
LED Module Life	Light Color	Color Rendering Index (Ra)	
60,000hours	Equivalent to 5,000K (Daylight)	70	

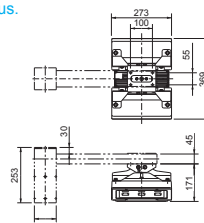
Specifications

Body: Diecast aluminum
Frame: Diecast aluminum
Front glass: Embossed glass
Bracket: Stainless
Finish color: White
Weight: 10.7kg

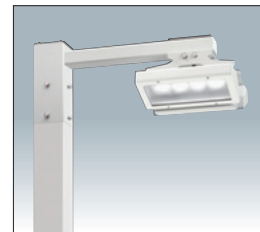
* Above characteristics are available at an ambient temperature of +25°C.

* Dimmable and/or light color equivalents of 4,000K and 3,000K have to be special ordered.

* Dimmable types can be made to special order, so please contact us.



Wide beam



Weather-proof

EHCL19743N/SA1/2.4(Luminaire: EHCL19743N/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power Consumption	
20,000lm		190W (100V) 186W (200V) 185W (240V)	
Luminous Efficacy			
105.3lm/W (100V) 107.5lm/W (200V) 108.1lm/W (240V)			
LED Module Life	Light Color	Color Rendering Index (Ra)	
60,000hours	Equivalent to 5,000K (Daylight)	70	

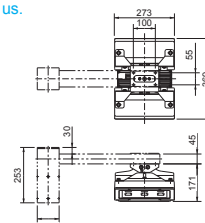
Specifications

Body: Diecast aluminum
Frame: Diecast aluminum
Front glass: Embossed glass
Bracket: Stainless
Finish color: White
Weight: 10.7kg

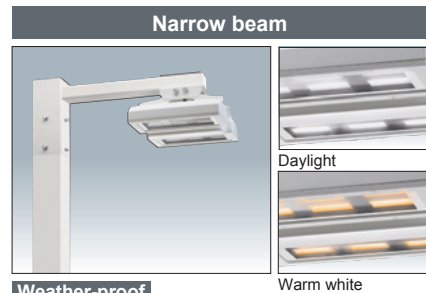
* Above characteristics are available at an ambient temperature of +25°C.

* Dimmable and/or light color equivalents of 4,000K and 3,000K have to be special ordered.

* Dimmable types can be made to special order, so please contact us.



Type F Standard



Weather-proof

EHCL18731N/SA1/2.4 (Daylight)
(Body: EHCL18711N/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

EHCL18731LW/SA1/2.4 (Warm white)
(Body: EHCL18711LW/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
10,900lm (Daylight), 7,750lm (Warm white)	180W
Luminous efficacy	LED module life
60.6lm/W (Daylight), 43.1lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications

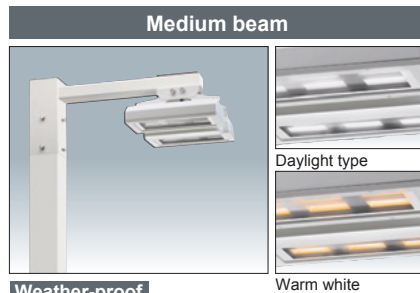
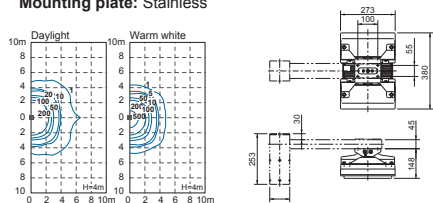
Body: Diecast aluminum

Front glass: Tempered glass

Mounting plate: Stainless

Finish color: White

Weight: 10.7kg



Weather-proof

EHCL18732N/SA1/2.4 (Daylight)
(Body: EHCL18712N/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

EHCL18732LW/SA1/2.4 (Warm white)
(Body: EHCL18712LW/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
12,300lm (Daylight), 8,740lm (Warm white)	180W
Luminous efficacy	LED module life
68.3lm/W (Daylight), 48.6lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications

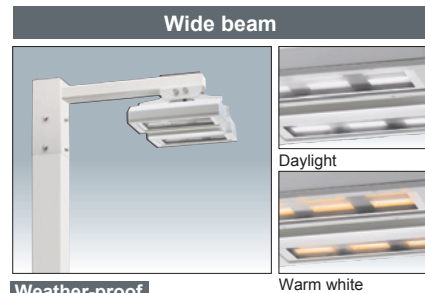
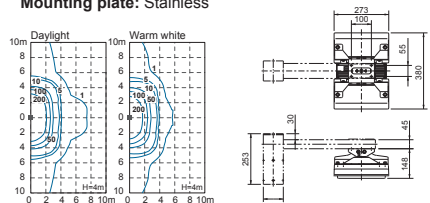
Body: Diecast aluminum

Front glass: Tempered glass

Mounting plate: Stainless

Finish color: White

Weight: 10.7kg



Weather-proof

EHCL18733N/SA1/2.4 (Daylight)
(Body: EHCL18713N/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

EHCL18733LW/SA1/2.4 (Warm white)
(Body: EHCL18713LW/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
13,600lm (Daylight), 9,660lm (Warm white)	180W
Luminous efficacy	LED module life
75.6lm/W (Daylight), 53.7lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications

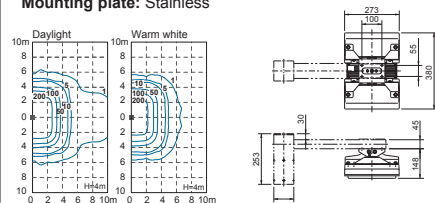
Body: Diecast aluminum

Front glass: Tempered glass

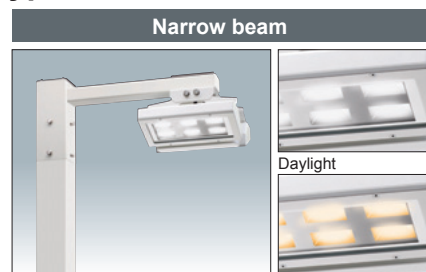
Mounting plate: Stainless

Finish color: White

Weight: 10.7kg



Type V Standard



Weather-proof

EHCL18741N/SA1/2.4 (Daylight)
(Body: EHCL18721N/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

EHCL18741LW/SA1/2.4 (Warm white)
(Body: EHCL18721LW/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
11,930lm (Daylight), 8,470lm (Warm white)	180W
Luminous efficacy	LED module life
66.3lm/W (Daylight), 47.1lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications

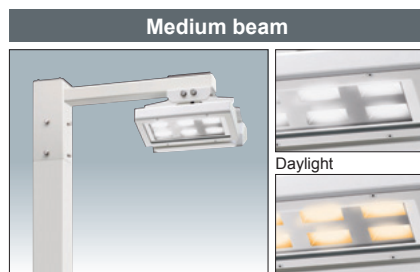
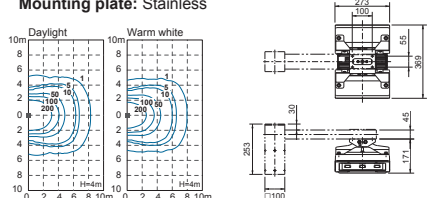
Body: Diecast aluminum

Front glass: Tempered glass

Mounting plate: Stainless

Finish color: White

Weight: 10.7kg



Weather-proof

EHCL18742N/SA1/2.4 (Daylight)
(Body: EHCL18722N/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

EHCL18742LW/SA1/2.4 (Warm white)
(Body: EHCL18722LW/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
13,320lm (Daylight), 9,460lm (Warm white)	180W
Luminous efficacy	LED module life
74.0lm/W (Daylight), 52.6lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications

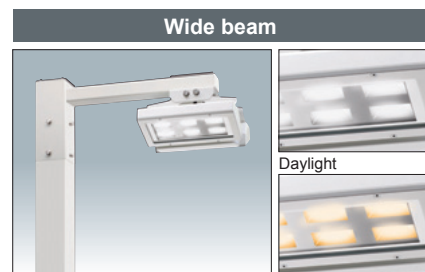
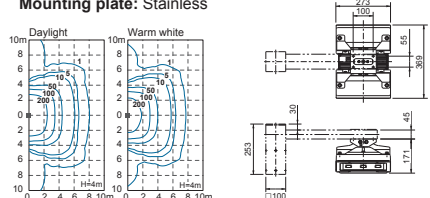
Body: Diecast aluminum

Front glass: Tempered glass

Mounting plate: Stainless

Finish color: White

Weight: 10.7kg



Weather-proof

EHCL18743N/SA1/2.4 (Daylight)
(Body: EHCL18723N/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

EHCL18743LW/SA1/2.4 (Warm white)
(Body: EHCL18723LW/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
13,800lm (Daylight), 9,800lm (Warm white)	180W
Luminous efficacy	LED module life
76.7lm/W (Daylight), 54.4lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications

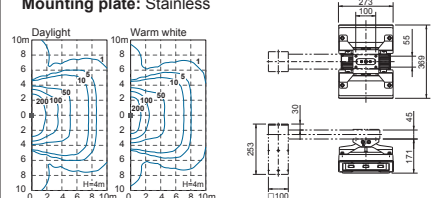
Body: Diecast aluminum

Front glass: Tempered glass

Mounting plate: Stainless

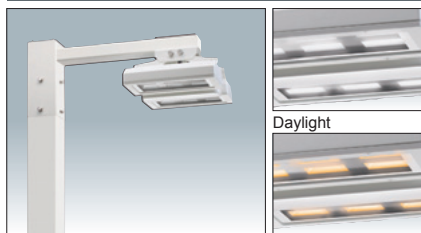
Finish color: White

Weight: 10.7kg



Type F Dimmable

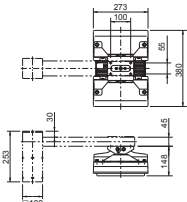
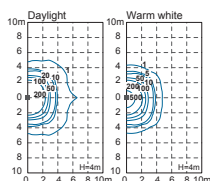
Narrow beam

**Weather-proof**

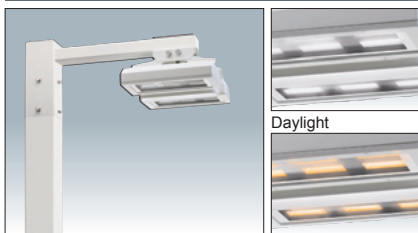
Warm white

EHCL18731DN/SA1/2.4 (Daylight)(Body: EHCL18711DN/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)**EHCL18731DLW/SA1/2.4** (Warm white)(Body: EHCL18711DLW/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
10,900lm (Daylight), 7,750lm (Warm white)	180W
Luminous efficacy	LED module life
60.6lm/W (Daylight), 43.1lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications**Body:** Diecast aluminum**Finish color:** White**Front glass:** Tempered glass**Weight:** 10.7kg**Mounting plate:** Stainless

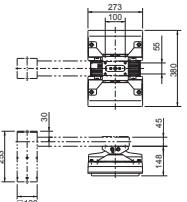
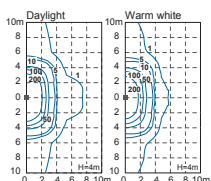
Medium beam

**Weather-proof**

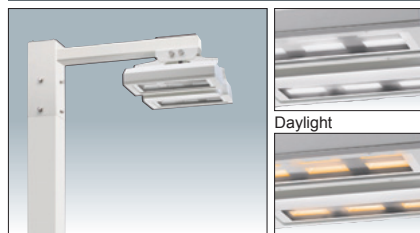
Warm white

EHCL18732DN/SA1/2.4 (Daylight)(Body: EHCL18712DN/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)**EHCL18732DLW/SA1/2.4** (Warm white)(Body: EHCL18712DLW/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
12,300lm (Daylight), 8,740lm (Warm white)	180W
Luminous efficacy	LED module life
68.3lm/W (Daylight), 48.6lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications**Body:** Diecast aluminum**Finish color:** White**Front glass:** Tempered glass**Weight:** 10.7kg**Mounting plate:** Stainless

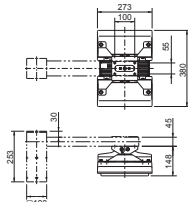
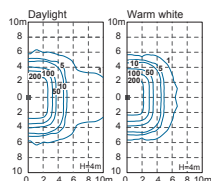
Wide beam

**Weather-proof**

Warm white

EHCL18733DN/SA1/2.4 (Daylight)(Body: EHCL18713DN/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)**EHCL18733DLW/SA1/2.4** (Warm white)(Body: EHCL18713DLW/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
13,600lm (Daylight), 9,660lm (Warm white)	180W
Luminous efficacy	LED module life
75.6lm/W (Daylight), 53.7lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications**Body:** Diecast aluminum**Finish color:** White**Front glass:** Tempered glass**Weight:** 10.7kg**Mounting plate:** Stainless

Type V Dimmable

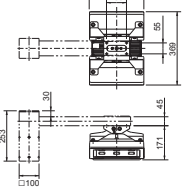
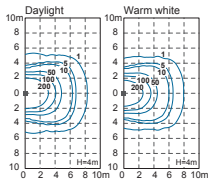
Narrow beam

**Weather-proof**

Warm white

EHCL18741DN/SA1/2.4 (Daylight)(Body: EHCL18721DN/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)**EHCL18741DLW/SA1/2.4** (Warm white)(Body: EHCL18721DLW/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
11,930lm (Daylight), 8,470lm (Warm white)	180W
Luminous efficacy	LED module life
66.3lm/W (Daylight), 47.1lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications**Body:** Diecast aluminum**Finish color:** White**Front glass:** Tempered glass**Weight:** 10.7kg**Mounting plate:** Stainless

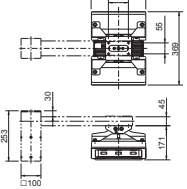
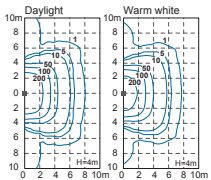
Medium beam

**Weather-proof**

Warm white

EHCL18742DN/SA1/2.4 (Daylight)(Body: EHCL18722DN/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)**EHCL18742DLW/SA1/2.4** (Warm white)(Body: EHCL18722DLW/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
13,320lm (Daylight), 9,460lm (Warm white)	180W
Luminous efficacy	LED module life
74.0lm/W (Daylight), 52.6lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications**Body:** Diecast aluminum**Finish color:** White**Front glass:** Tempered glass**Weight:** 10.7kg**Mounting plate:** Stainless

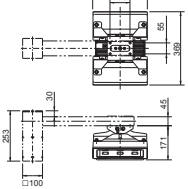
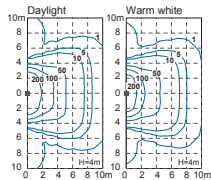
Wide beam

**Weather-proof**

Warm white

EHCL18743DN/SA1/2.4 (Daylight)(Body: EHCL18723DN/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)**EHCL18743DLW/SA1/2.4** (Warm white)(Body: EHCL18723DLW/SA1/2.4-0 + bracket: AEHCL12)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
13,800lm (Daylight), 9,800lm (Warm white)	180W
Luminous efficacy	LED module life
76.7lm/W (Daylight), 54.4lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications**Body:** Diecast aluminum**Finish color:** White**Front glass:** Tempered glass**Weight:** 10.7kg**Mounting plate:** Stainless

* The horizontal plane illumination distribution diagram above indicates initial values (unit: lx).

* The LED module has a 60,000-hour life when combined with an initial luminous flux correction unit (ILSD02A-HB).

Eyebird Solar powered LED light

provides light from green energy.

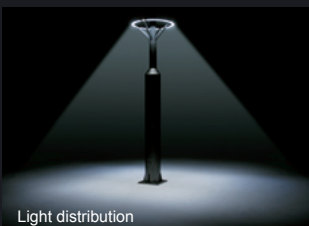
- Eyebird is combined with an interconnected pole light, allowing a single power generation system to operate two luminaires.
- Use of LEDs allows more creative freedom making it easier to design attractive luminaires.
- Features our unique high-luminance reflective LEDs for excellent light distribution control, long life and reduced maintenance.



ARCO type

The LED unit is configured from compact, low-power LED modules. The resulting white ring of light adds a touch of fantasy to the surroundings.

Material	Steel plate
Power supply unit	Internal DC/DC converter
Rated current of power supply unit	1.2A (12V DC)

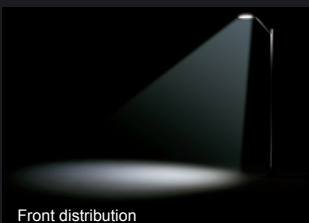


Light distribution

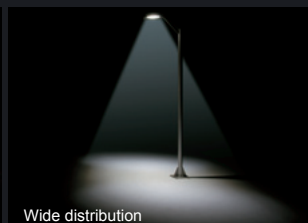
CELENE type

The slim compact Celene type luminaire lineup is comprised of two types: a wide distribution type that spreads light all around and a front distribution type that distributes light forward.

Material	Body: Diecast aluminum Arm: Steel plate
Power supply unit	Internal DC/DC converter
Rated current of power supply unit	1.2A (12V DC)



Front distribution



Wide distribution

Eyebird for simultaneous lighting and connected pole lights

Eyebird is a power-generating luminaire that uses a highly efficient solar cell and high-power wind generator to supply two luminaires with power. In addition to the luminaire installed in Eyebird, it can supply power to a pole light of the same design and is thus able to light two lamps. This power-generating capability eliminates the need to build a power generation system where light is needed, which means installation harmonizes with the surroundings and saves energy. For example, a connected pole light can be installed in a location where there is little sunlight in the daytime if Eyebird is installed in a sunny spot.

Wind power generator

• Power assist function

When there is no wind, this function automatically turns the rotor 6seconds of every minute to better utilize any wind that comes along. In winter, it prevents the device from freezing up.

• Safety design

Safety design slows down (stall operation) the rotor at wind speeds of 15m/sec and stops it at 20m/sec and stronger winds. When the battery is fully charged, a safety circuit stops the rotor to prevent overcharging and reduce the impact on the device. A diecast aluminum unibody construction, the generator and rotor are sturdily built for safe operation.

• Silent blade

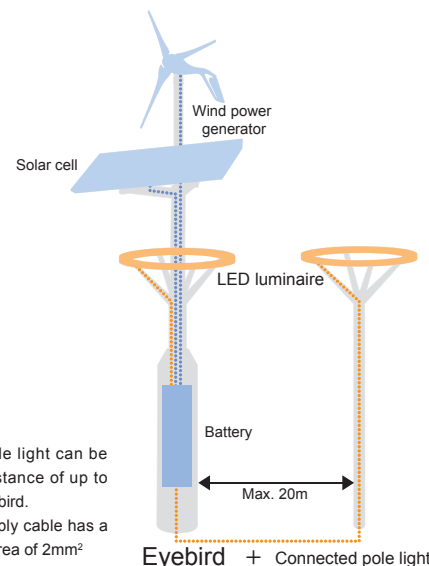
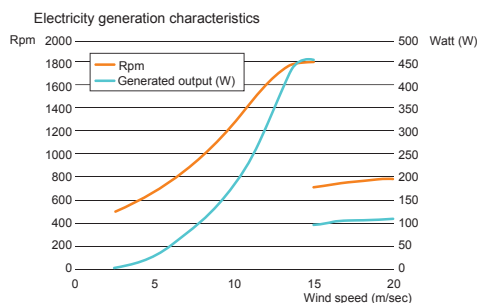
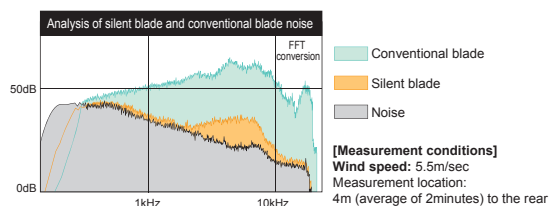
A special surface treatment of the blade lowers noise (wind noise) by 32dB making quiet operation possible.

(wind speed: 6.5m/s, location of measurement: 10m below)



Comparing noise levels of silent and conventional blades		Average noise level
Conventional blade		62dB
Silent blade		32dB

Measurement condition: Wind speed: 6.5m/s, location of measurement: 10m below

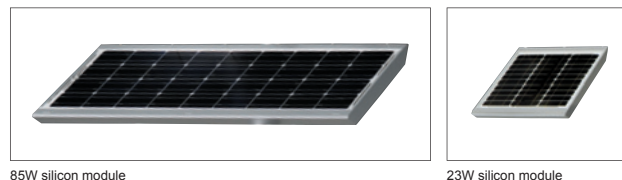


A connected pole light can be installed at a distance of up to 20m (*) from Eyebird.

* The power supply cable has a cross-sectional area of 2mm²

Solar cell

Both systems use high-power output single-crystal silicon modules (rated output of 85W × 1 per interconnected system and 23W × 2 per independent system).



Control part c/w pole

• Pole Lights

Made from round steel tubing, the entire Eyebird structure is strong enough to withstand up to 60m/sec winds. The control part and battery case are integrated into the pole for a slim design that enhances functionality. A joint in the solar cell enables orientation adjustments after installation. Thus there is no need to adjust angle of orientation during basic installation work.

• Control part

The difference in power generating capacity of the solar cell helps the control part to determine whether it is day or night allowing it to automatically light the LED luminaire. Light goes out automatically at a set time or a safety circuit turns off the luminaire when battery voltage becomes very low to extend battery life. The two power generating systems then raise the battery voltage and the light is automatically relit to brighten up the night. A test switch is provided to enable service personnel to check the luminaire in the daytime.

[Major control part functions]

• Over discharge protection function

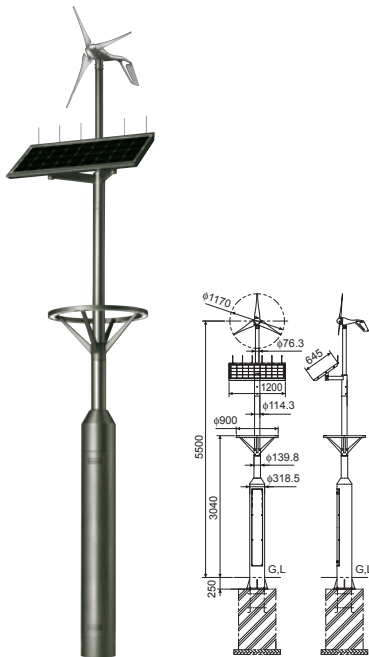
When the battery voltage goes below 11.5V, power supply is stopped to protect the battery. As charging raises battery voltage to 13.5V or more, the battery again starts supplying power automatically.

• Battery

We use a compact control seal lead battery for cyclic use. Since there is no need to refill water and the battery has a life of 7 to 10years, it considerably reduces maintenance work.

Optional products

- Can be combined with a commercial power supply
- 100V AC output
- Power generation indication system
- Wind direction and speed meter
- Clock, etc.



12-hour on type
HTLE1511ER-H-2

Weather-proof **Standard model**

HTLE1541ER-H-2

Weather-proof **Hot dip galvanizing model**

Maximum lighting time per day (Fully on, not dimmable)
When separately set: 12hours
When connected: 8hours
Battery capacitance: Five days worth

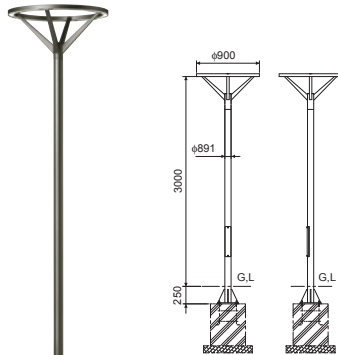
Specifications

Luminaire body: Steel plate
Wind power generator: Diecast aluminum
Finish color: Gunmetal gray

HTLE1511ER-H-2
Solar cell module mounting: Steel plate
Pole: Steel tube (painted after rust-proofing)

HTLE1541ER-H-2
Solar cell module mounting: Stainless
Pole: Steel tube (painted after hot dip galvanizing)

Anchor bolt: ANC243050



Connected pole light
HTLR911

Weather-proof **Standard model**

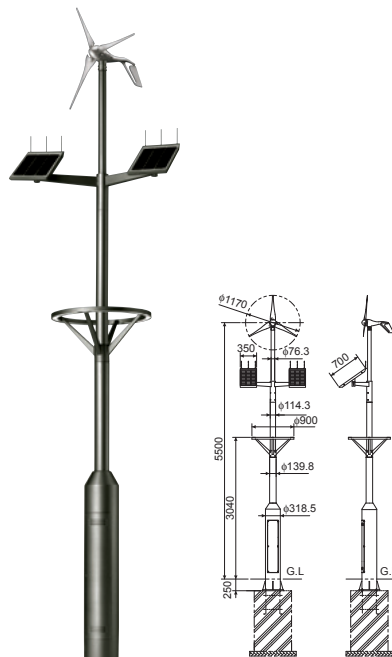
HTLR941

Weather-proof **Hot dip galvanizing model**

Specifications

Luminaire body: Steel plate
Finish color: Gunmetal gray
Pole: Steel tube (corrosion-proof urethane resin paint)

* The Eyebird Arco type is designed to be used connected to the HTLE1511ER-H-2 or HTLE1541ER-H-2.



8-hour on type
HTLE1511ER

Weather-proof **Standard model**

HTLE1541ER

Weather-proof **Hot dip galvanizing model**

Maximum lighting time per day: 8hours (Fully on, not dimmable)
Battery capacitance: Five days worth

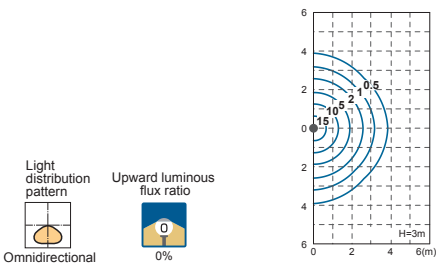
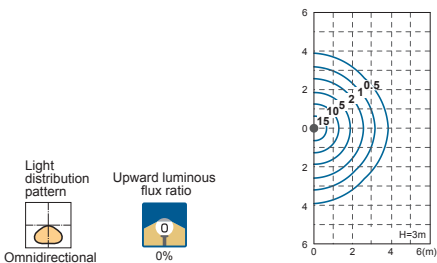
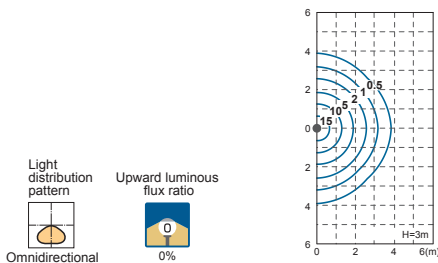
Specifications

Luminaire body: Steel plate
Wind power generator: Diecast aluminum
Finish color: Gunmetal gray

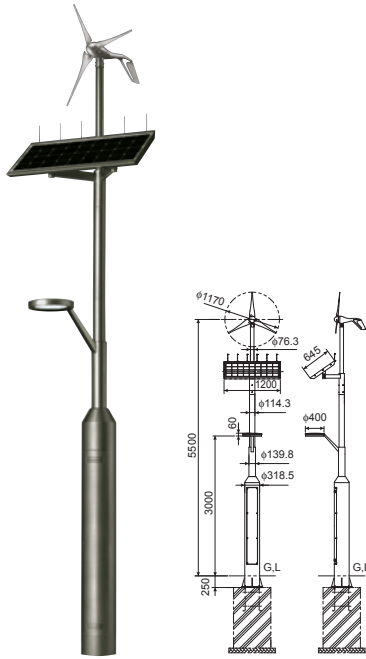
HTLE1511ER
Solar cell module mounting: Steel plate
Pole: Steel tube (painted after rust-proofing)

HTLE1541ER
Solar cell module mounting: Stainless
Pole: Steel tube (painted after hot dip galvanizing)

Anchor bolt: ANC243050



Eyebird Celene type



12-hour on type

HTLE1011EDF-H-2 (front distribution light)
HTLE1011EDW-H-2 (wide distribution light)

Weather-proof **Standard model**

HTLE1041EDF-H-2 (front distribution light)
HTLE1041EDW-H-2 (wide distribution light)

Weather-proof **Hot dip galvanizing model**

Maximum lighting time per day (Fully on, not dimmable)
 When separately set: 12hours
 When connected: 8hours
 Battery capacitance: Five days worth

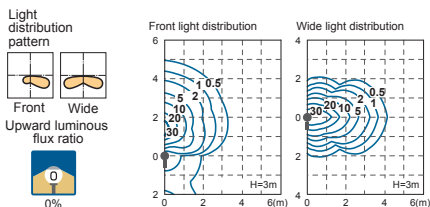
Specifications

Luminaire body: Diecast aluminum
Wind power generator: Diecast aluminum
Finish color: Gunmetal gray

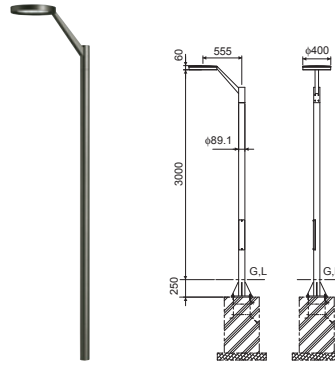
HTLE1011EDF-H-2, HTLE1011EDW-H-2
Solar cell module mounting: Steel plate
Pole: Steel tube (painted after rust-proofing)

HTLE1041EDF-H-2, HTLE1041EDW-H-2
Solar cell module mounting: Stainless
Pole: Steel tube (painted after hot dip galvanizing)

Anchor bolt: ANC243050



Eyebird Celene type



Connected pole light

HTLD911F-2 (front distribution light)
HTLD911W-2 (wide distribution light)

Weather-proof **Standard model**

12V DC lighting

HTLD941F-2 (front distribution light)
HTLD941W-2 (wide distribution light)

Weather-proof **Hot dip galvanizing model**

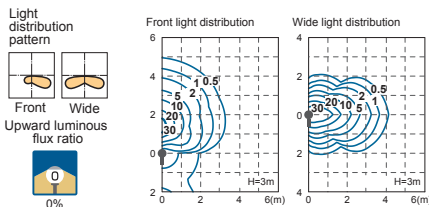
12V DC lighting

Specifications

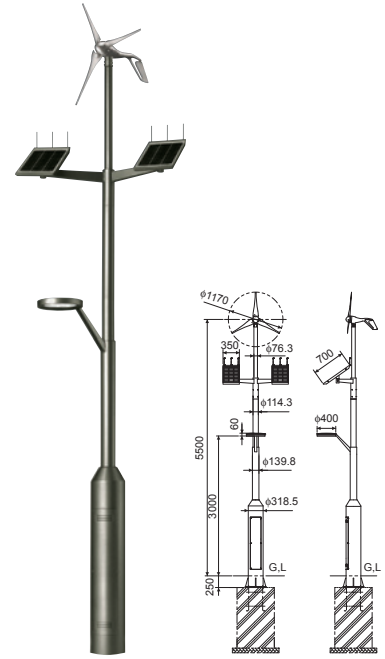
Luminaire body: Diecast aluminum
Finish color: Gunmetal gray
HTLD911F-2
HTLD911W-2
Pole: Steel tube (painted after rust-proofing)

HTLD941F-2
HTLD941W-2
Pole: Steel tube (painted after hot dip galvanizing)

* The Eyebird Celene type is designed to be used connected to the HTLE1011EDF-H-2, HTLE1011EDW-H-2, HTLE1041EDF-H-2 or HTLE1041EDW-H-2.



Eyebird Celene type



8-hour on type

HTLE1011EDF-2 (front distribution light)
HTLE1011EDW-2 (wide distribution light)

Weather-proof **Standard model**

HTLE1041EDF-2 (front distribution light)
HTLE1041EDW-2 (wide distribution light)

Weather-proof **Hot dip galvanizing model**

Maximum lighting time per day: 8hours (Fully on, not dimmable)
 Battery capacitance: Five days worth

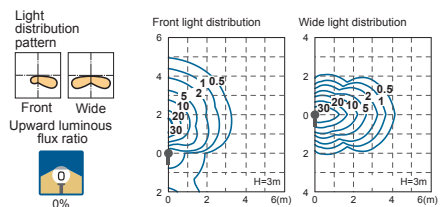
Specifications

Luminaire body: Diecast aluminum
Wind power generator: Diecast aluminum
Finish color: Gunmetal gray

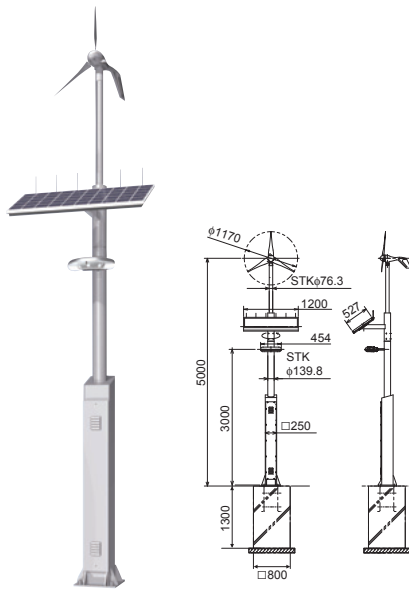
HTLE1011EDF-2, HTLE1011EDW-2
Solar cell module mounting: Steel plate
Pole: Steel tube (painted after rust-proofing)

HTLE1041EDF-2, HTLE1041EDW-2
Solar cell module mounting: Stainless
Pole: Steel tube (painted after hot dip galvanizing)

Anchor bolt: ANC243050



* The horizontal plane illumination distribution diagram above indicates initial values (unit: lx).
 * The foundation drawing in the dimension drawing is for standard concrete foundation (reference).



LEDioc STREET type
8-hour on type

HTLE2011E-3

Weather-proof Standard model

HTLE2041E-3

Weather-proof Hot dip galvanizing model

Maximum lighting time per day: 8hours (Fully on, not dimmable)
Battery capacitance: Five days worth

Specifications

Luminaire body: Diecast aluminum
Wind power generator: Diecast aluminum
Finish color: Metallic silver

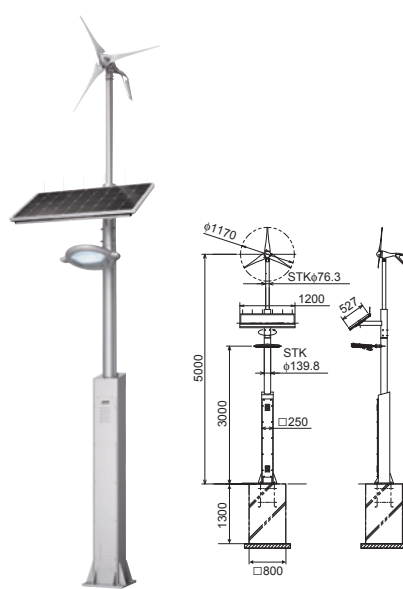
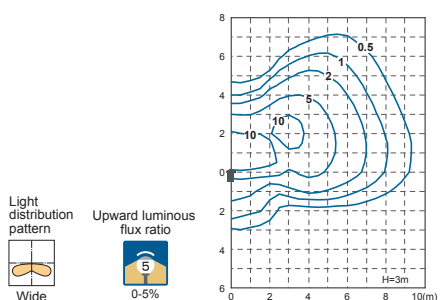
HTLE2011E-3

Solar cell module mounting: Steel plate
Pole: Steel tube (painted after rust-proofing)

HTLE2041E-3

Solar cell module mounting: Stainless
Pole: Steel tube (painted after hot dip galvanizing)

Anchor bolt: ANC243050



12-hour on type

HTLE1511EC-2

Weather-proof Standard model

HTLE1541EC-2

Weather-proof Hot dip galvanizing model

Maximum lighting time per day: 12hours (Fully on, not dimmable)
Battery capacitance: Five days worth

Specifications

Luminaire body: Aluminum casting
Wind power generator: Diecast aluminum
Finish color: Metallic silver

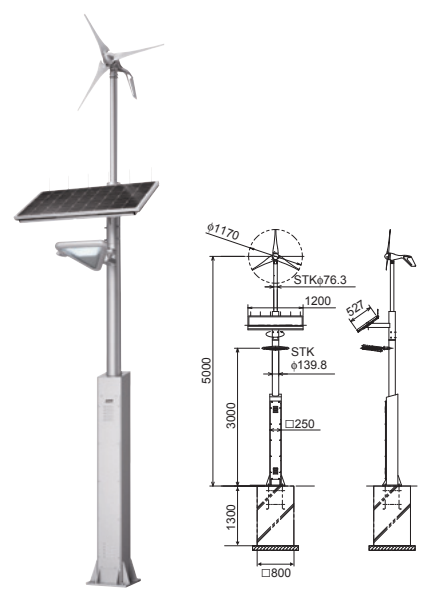
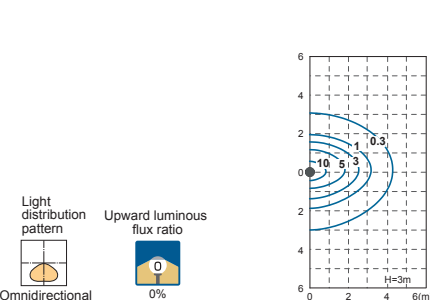
HTLE1511EC-2

Solar cell module mounting: Steel plate
Pole: Steel tube (painted after rust-proofing)

HTLE1541EC-2

Solar cell module mounting: Stainless
Pole: Steel tube (painted after hot dip galvanizing)

Anchor bolt: ANC243050



12-hour on type

HTLE1511ET-2

Weather-proof Standard model

HTLE1541ET-2

Weather-proof Hot dip galvanizing model

Maximum lighting time per day: 12hours (Fully on, not dimmable)
Battery capacitance: Five days worth

Specifications

Luminaire body: Aluminum casting
Wind power generator: Diecast aluminum
Finish color: Metallic silver

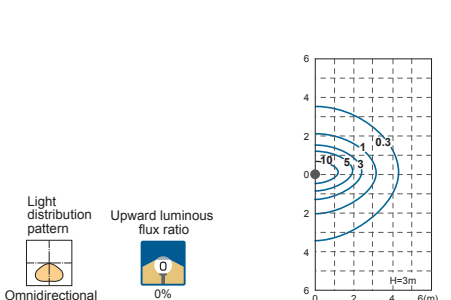
HTLE1511ET-2

Solar cell module mounting: Steel plate
Pole: Steel tube (painted after rust-proofing)

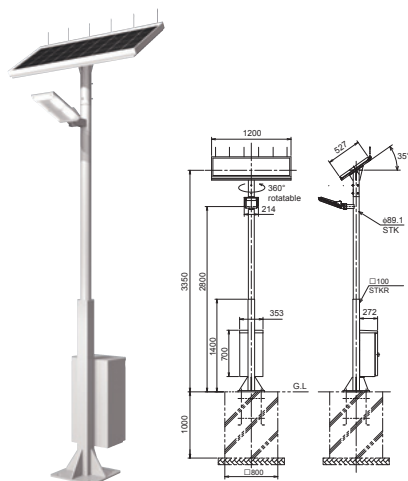
HTLE1541ET-2

Solar cell module mounting: Stainless
Pole: Steel tube (painted after hot dip galvanizing)

Anchor bolt: ANC243050



Solar powered LED light, LEDioc STREET 40VA type



8-hour on type

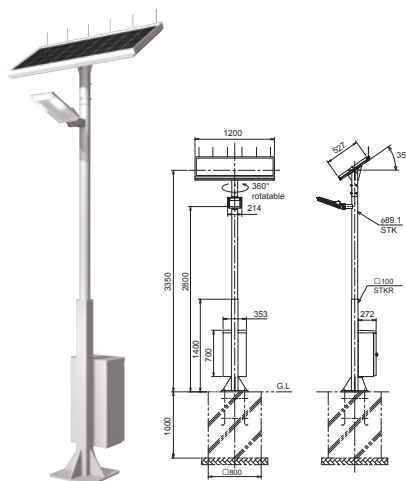
TLE4045LS40**Weather-proof Hot dip galvanizing model**

Maximum lighting time per day: 8hours (Fully on, not dimmable)

Battery capacitance: Five days worth

Specifications**Luminaire body:** Diecast aluminum**Finish color:** Metallic silver**Solar cell module mounting:** Stainless**Battery box:** Stainless**Pole:** Steel tube (painted after hot dip galvanizing)**Anchor bolt:** ANC243050

Solar powered LED light, LEDioc STREET 20VA type



12-hour on type

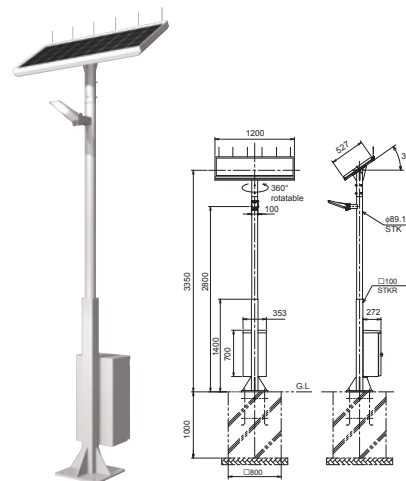
TLE2045LS20**Weather-proof Hot dip galvanizing model**

Maximum lighting time per day: 12hours (Fully on, not dimmable)

Battery capacitance: Five days worth

Specifications**Luminaire body:** Diecast aluminum**Finish color:** Metallic silver**Solar cell module mounting:** Stainless**Battery box:** Stainless**Pole:** Steel tube (painted after hot dip galvanizing)**Anchor bolt:** ANC243050

Solar powered LED light, LEDioc STREET 10VA type

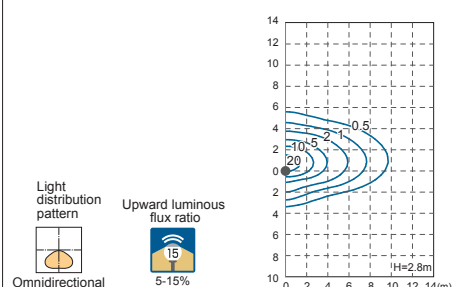
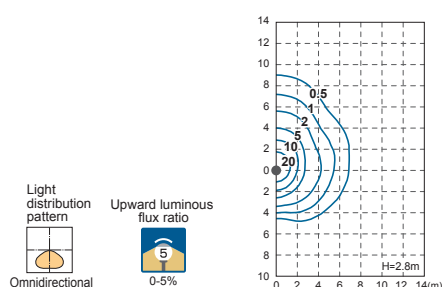
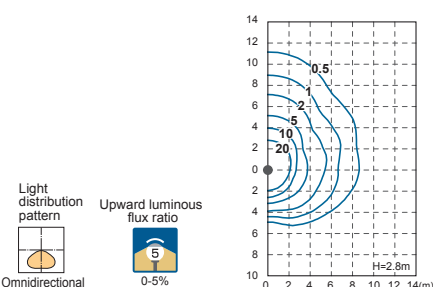


12-hour on type

TLE1045LS10-1**Weather-proof Hot dip galvanizing model**

Maximum lighting time per day: 12hours (Fully on, not dimmable)

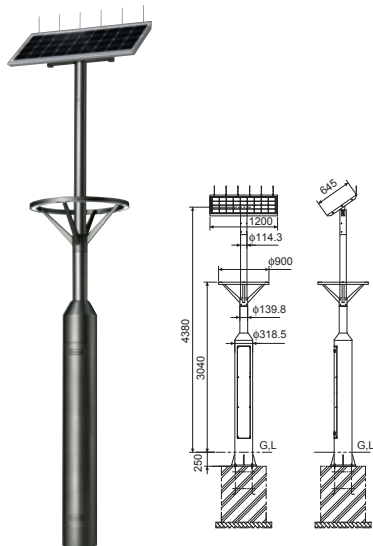
Battery capacitance: Five days worth

Specifications**Luminaire body:** Diecast aluminum**Finish color:** Metallic silver**Solar cell module mounting:** Stainless**Battery box:** Stainless**Pole:** Steel tube (painted after hot dip galvanizing)**Anchor bolt:** ANC243050

* The horizontal plane illumination distribution diagram above indicates initial values (unit: lx).

* The foundation drawing in the dimension drawing is for standard concrete foundation (reference).

Solar powered LED light Arco type



12-hour on type

TLE1511ER-H-2**Weather-proof Standard model****TLE1541ER-H-2****Weather-proof Hot dip galvanizing model**

Maximum lighting time per day (Fully on, not dimmable)

When separately set: 12hours

When connected: 8hours

Battery capacitance: Five days worth

Specifications**Luminaire body:** Steel plate**Finish color:** Gunmetal gray

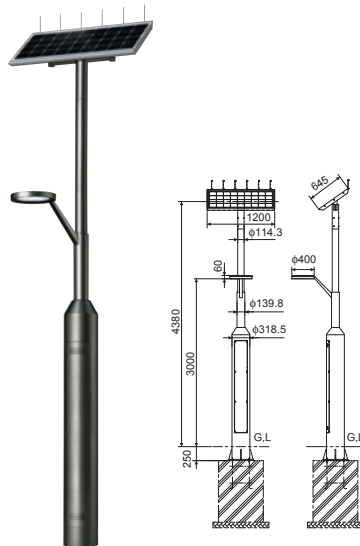
TLE1511ER-H-2

Solar cell module mounting: Steel plate**Battery box and pole:** Steel tube (painted after rust-proofing)

TLE1541ER-H-2

Solar cell module mounting: Stainless**Battery box and pole:** Steel tube (painted after hot dip galvanizing)**Anchor bolt:** ANC243050

Solar powered LED light Celene type



12-hour on type

TLE1011EDF-H-2 (front distribution light)**TLE1011EDW-H-2** (wide distribution light)**Weather-proof Standard model****TLE1041EDF-H-2** (front distribution light)**TLE1041EDW-H-2** (wide distribution light)**Weather-proof Hot dip galvanizing model**

Maximum lighting time per day (Fully on, not dimmable)

When separately set: 12hours

When connected: 8hours

Battery capacitance: Five days worth

Specifications**Luminaire body:** Diecast aluminum**Finish color:** Gunmetal gray

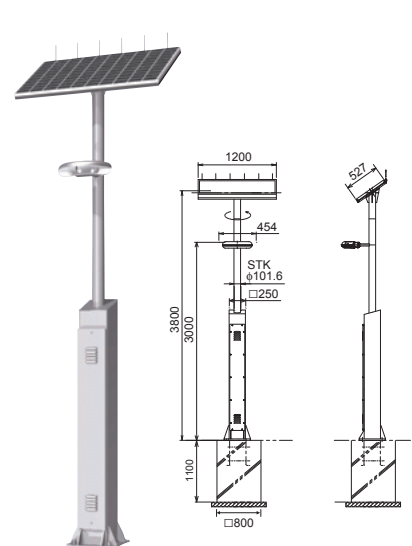
TLE1011EDF-H-2, TLE1011EDW-H-2

Solar cell module mounting: Steel plate**Battery box and pole:** Steel tube (painted after rust-proofing)

TLE1041EDF-H-2, TLE1041EDW-H-2

Solar cell module mounting: Stainless**Battery box and pole:** Steel tube (painted after hot dip galvanizing)**Anchor bolt:** ANC243050

Solar powered LED light, LEDioc Street II type



8-hour on type

TLE2011-3**Weather-proof Standard model****TLE2041-3****Weather-proof Hot dip galvanizing model**

Maximum lighting time per day: 8hours (Fully on, not dimmable)

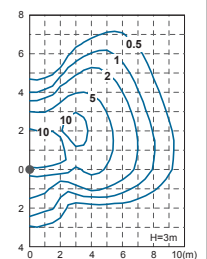
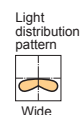
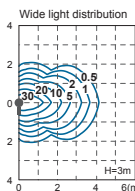
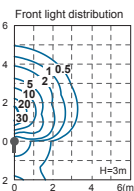
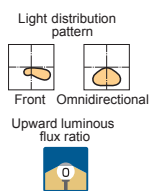
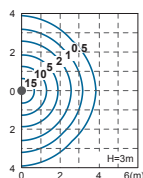
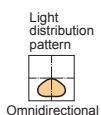
Battery capacitance: Five days worth

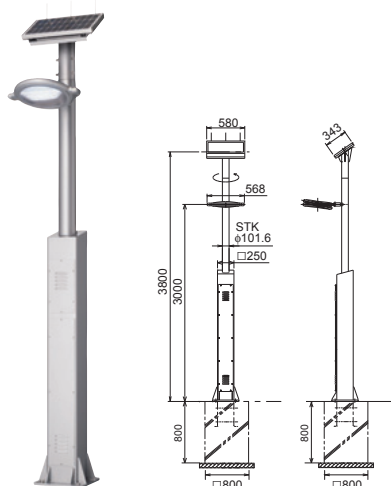
Specifications**Luminaire body:** Diecast aluminum**Finish color:** Metallic silver

TLE2011-3

Solar cell module mounting: Steel plate**Battery box and pole:** Steel tube (painted after rust-proofing)

TLE2041-3

Solar cell module mounting: Stainless**Battery box and pole:** Steel tube (painted after hot dip galvanizing)**Anchor bolt:** ANC243050



6-hour on type TLE1511C

Weather-proof Standard model

TLE1541C

Weather-proof Hot dip galvanizing model

Maximum lighting time per day: 6hours (Fully on, not dimmable)
Battery capacitance: Five days worth

Specifications

Luminaire body: Aluminum casting
Finish color: Metallic silver

TLE1511C

Solar cell module mounting: Steel plate

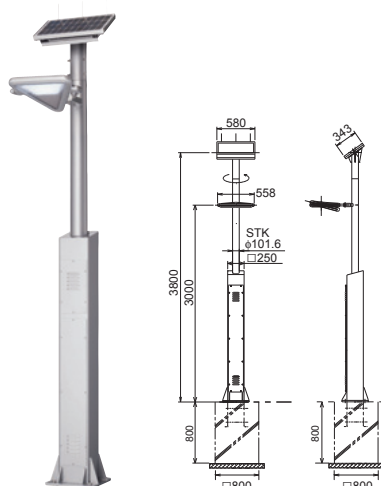
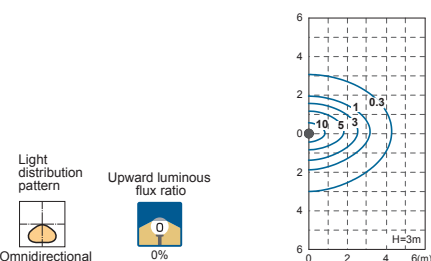
Battery box and pole: Steel tube (painted after rust-proofing)

TLE1541C

Solar cell module mounting: Stainless

Battery box and pole: Steel tube (painted after hot dip galvanizing)

Anchor bolt: ANC243050



6-hour on type TLE1511T

Weather-proof Standard model

TLE1541T

Weather-proof Hot dip galvanizing model

Maximum lighting time per day: 6hours (Fully on, not dimmable)
Battery capacitance: Five days worth

Specifications

Luminaire body: Aluminum casting
Finish color: Metallic silver

TLE1511T

Solar cell module mounting: Steel plate

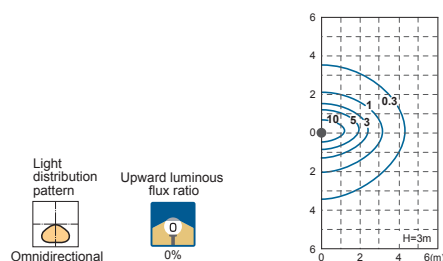
Battery box and pole: Steel tube (painted after rust-proofing)

TLE1541T

Solar cell module mounting: Stainless

Battery box and pole: Steel tube (painted after hot dip galvanizing)

Anchor bolt: ANC243050



Notes regarding solar powered hybrid lights and solar powered lights

- * Be sure to consult us regarding special applications outside of normal solar powered light applications, use in special environments and use in areas exposed to high concentrations of salt.
- * Since solar powered lights use natural energy, they may not meet lighting time requirements depending on weather conditions. (Please consult us for details.)
- * Charging capacity drops significantly when tree branches or other objects prevent sunlight from reaching the solar cell surface. Reduce the lighting time.
- * Charging capacity drops when the solar cell surface becomes soiled. Clean the solar cell at least once a year.
- * Check the specifications for details on service life.
- * Maximum lighting time is the time lamps can be lit based on four effective hours of sunlight per day. Carefully select location of installation as it may not be possible to maintain rated hours if the solar cell does not receive enough sunlight. (Locations where shade can fall on the solar cell during the time frame of 9am to 3pm throughout the year.)
- * Do not install solar cells where they may be exposed to light from street lights at night. Exposure to light from street lights may cause the solar cell to malfunction.
- * The amount of solar insolation (or amount of wind generated electricity) varies with place of installation. Set a lighting time that is lower than the maximum lighting time that the place of installation can supply. Insufficient charging could shorten battery life or cause it to malfunction.

* The horizontal plane illumination distribution diagram above indicates initial values (unit: lx).
* The foundation drawing in the dimension drawing is for standard concrete foundation (reference).



Shin-Tomei Expressway, Hamamatsu Service Area
(LEDioc AREA Type D)



Shin-Tomei Expressway, Shizuoka Service Area
(LEDioc AREA mitis-B)



Oizumiryokuchi
(LEDioc AREA Type D)



Sapporo city, Maeda park
(LEDioc AREA Type G)



Hokkaido University Library's Media Court
(LEDioc AREA Type G)



Takashima Suisaisen Park
(LEDioc AREA TECHNORAY)



West exit line of Kumamoto Station
(LEDioc AREA mitis-B)



Yaoko Kawagoematoba shop
(LEDioc AREA mitis-D)



West Chiba Campus of National University Corporation Chiba University
(LEDioc AREA Japanese type)



Metropolitan Expressway, Komagata Parking Area
(Solar powered LED light)



Shinkocho area on Japan National Route 116
(The Eyebird Arco type)



Kido Dam
(The Eyebird Arco type)

LED Light Bulb

Street Lighting

Park and Landscape
Luminaires

Landscape Luminaires

Floodlights

High-bay Luminaires

Downlights

Universal Downlights

Special Luminaires for
Industrial Applications



LEDiOC Underwater Luminaires

A 95W type provides the same brightness as an underwater luminaire with a 250W halogen lamp.

As LEDiOC consumes only 62% as much power, it lowers CO₂ emissions.

Available for a variety of applications

- A lineup of 24 models including two brightness types 95W and 60W, two light colors and three light distribution types.
- Materials and paint are highly corrosion resistant.

Safety design

- Hermetically sealed case with an IP68 protection rating
- The power supply unit comes in a double insulation construction and the luminaire has a dual structure to reduce condensation.

Long life means less maintenance

- LED module life of up to 40,000hours. This reduces tricky underwater maintenance work.

Extensive and varied lineup

We offer a full lineup comprising 24 models that differ in brightness: 95W or 60W type brightness; in light color: Daylight or Warm White; light distribution variation: Narrow, medium and wide to provide high output power LED illumination for various lighting scenarios.

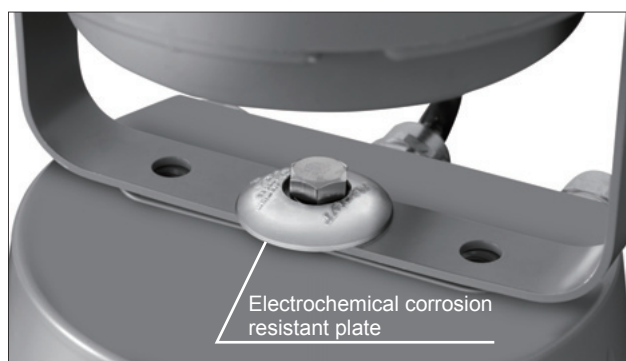
Type	Light color	Light distribution characteristics	Type number	Luminaire luminous flux	Axis candela	1/2 beam angle	Compatible power supply
95W Type	Equivalent to 5,000K (Daylight type)	Narrow beam	EW0724N/SA1/2.4 (E)	5500lm	13300cd	37°	Power supply voltage 100 to 240V AC Frequency 50/60Hz
		Medium beam	EW0725N/SA1/2.4 (E)	5600lm	6900cd	49°	
		Wide beam	EW0726N/SA1/2.4 (E)	5500lm	3500cd	78°	
	Equivalent to 3,000K (Warm white type)	Narrow beam	EW0724LW/SA1/2.4 (E)	3900lm	9500cd	37°	
		Medium beam	EW0725LW/SA1/2.4 (E)	4000lm	4900cd	49°	
		Wide beam	EW0726LW/SA1/2.4 (E)	3900lm	2500cd	78°	
60W Type	Equivalent to 5,000K (Daylight type)	Narrow beam	EW0524N/SA1/2.4 (E)	3600lm	8900cd	37°	
		Medium beam	EW0525N/SA1/2.4 (E)	3700lm	4600cd	49°	
		Wide beam	EW0526N/SA1/2.4 (E)	3700lm	2150cd	78°	
	Equivalent to 3,000K (Warm white type)	Narrow beam	EW0524LW/SA1/2.4 (E)	2600lm	6300cd	37°	
		Medium beam	EW0525LW/SA1/2.4 (E)	2650lm	3300cd	49°	
		Wide beam	EW0526LW/SA1/2.4 (E)	2650lm	1650cd	78°	

the Daylight and the Warm White types, the above models can also be offered in a single color type (blue, green and red). * "E" at the end of model indicates unit installation.

Use of highly corrosion resistant materials

The luminaire body and power supply unit case is made from ADC6, which has 8 times the corrosion resistance of ADC12. In addition, to prevent aluminum corrosion all screws are made from a corrosion resistant stainless material and an electrochemical corrosion resistant plate is used to guarantee long-term* use.

* Although the luminaires are highly corrosion resistant, regular inspections should be performed to guarantee long-term stable operation.



Usable down to a depth of 2m below ground level

Hermetically sealed thanks to a complete enclosure that carries an IP68 protection rating, the luminaire can be installed in outdoor facilities down to a depth of 2m enabling lighting in a variety of locations.

* Cannot be used in pools or locations frequented by people. The luminaires could be damaged and pose an electric shock hazard.

* Use in water at temperatures lower than 35°C. It can be used outdoors in locations other than under water, but the ambient temperature must be 35°C or lower.

Substantial energy saving lower CO₂ emissions

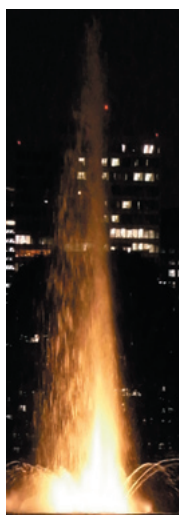
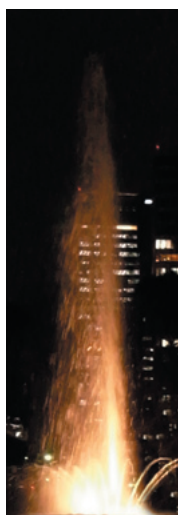
Comparison example



250W halogen lamp Underwater Luminaire
Narrow beam



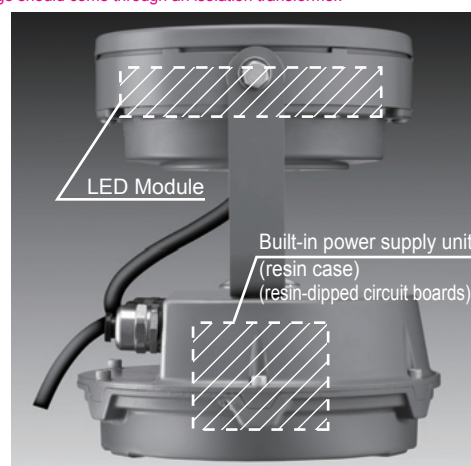
LEDiOC Underwater luminaire 95W type
(Narrow beam: Warm White EW0724LW/SA1/2.4)



Advanced safety design

The power supply unit comes in a double insulation construction to ensure electrical safety. Also the LEDs in the luminaire feature a dual structure to prevent condensation.

* Input voltage should come through an isolation transformer.



Long life

Compared to halogen lamps that have so far been used in under-water luminaires, LEDiOC has an LED module life of 40,000hours or 20 times the 2,000-hour rated life of halogen lamps. This considerably reduces costs as underwater maintenance is difficult work.

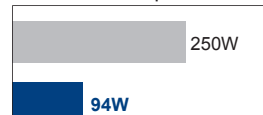
250W halogen lamp Underwater Luminaire

Narrow beam

LEDiOC Underwater luminaire 95W type

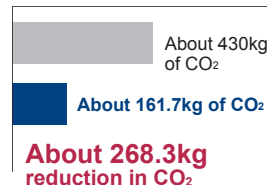
(Narrow beam: Warm White EW0724LW/SA1/2.4)

Power consumption*1

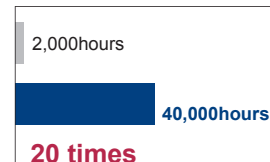


An energy saving of roughly 62%

Annual amount of CO₂ emissions*2



Lifetime

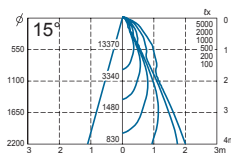


*1 The power consumption of halogen lamps is the input voltage at rated voltage input.

*2 CO₂ emission volume is calculated based on 0.43kg of CO₂ per kWh.

95W type

Narrow beam



Underwater/outdoor

EW0724N/SA1/2.4 (For transmission)

EW0724N/SA1/2.4E (For unit installation)

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
5,500lm	94W
Luminous efficacy	LED module life
58.5lm/W	40,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,000K (Daylight)	68

Specifications

Body: Diecast aluminum

Front panel: Tempered glass

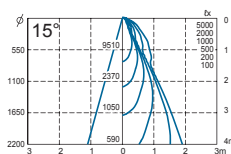
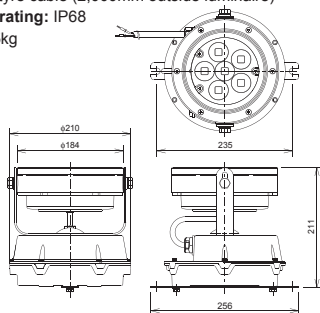
Arm: Stainless

Bracket: Stainless

Cable: Cabtyre cable (2,000mm outside luminaire)

Protection rating: IP68

Weight: 6.5kg



Underwater/outdoor

EW0724LW/SA1/2.4 (For transmission)

EW0724LW/SA1/2.4E (For unit installation)

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
3,900lm	94W
Luminous efficacy	LED module life
41.5lm/W	40,000hours
Light color	Color rendering index (Ra)
Equivalent to 3,000K (Warm white)	80

Specifications

Body: Diecast aluminum

Front panel: Tempered glass

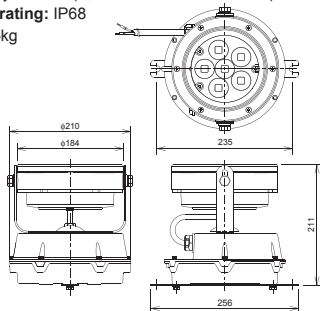
Arm: Stainless

Bracket: Stainless

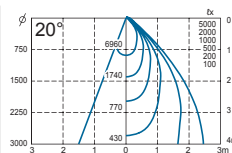
Cable: Cabtyre cable (2,000mm outside luminaire)

Protection rating: IP68

Weight: 6.5kg



Medium beam



Underwater/outdoor

EW0725N/SA1/2.4 (For transmission)

EW0725N/SA1/2.4E (For unit installation)

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
5,600lm	94W
Luminous efficacy	LED module life
59.6lm/W	40,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,000K (Daylight)	68

Specifications

Body: Diecast aluminum

Front panel: Tempered glass

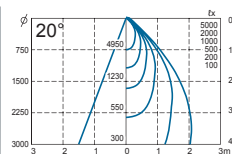
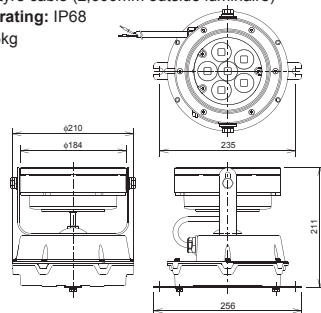
Arm: Stainless

Bracket: Stainless

Cable: Cabtyre cable (2,000mm outside luminaire)

Protection rating: IP68

Weight: 6.5kg



Underwater/outdoor

EW0725LW/SA1/2.4 (For transmission)

EW0725LW/SA1/2.4E (For unit installation)

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
4,000lm	94W
Luminous efficacy	LED module life
42.6lm/W	40,000hours
Light color	Color rendering index (Ra)
Equivalent to 3,000K (Warm white)	80

Specifications

Body: Diecast aluminum

Front panel: Tempered glass

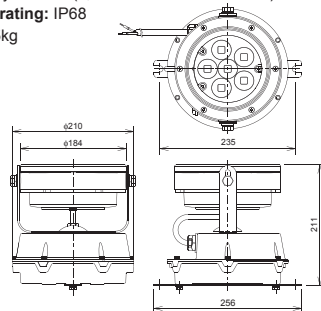
Arm: Stainless

Bracket: Stainless

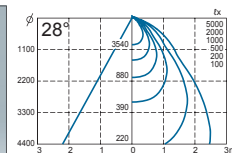
Cable: Cabtyre cable (2,000mm outside luminaire)

Protection rating: IP68

Weight: 6.5kg



Wide beam



Underwater/outdoor

EW0726N/SA1/2.4 (For transmission)

EW0726N/SA1/2.4E (For unit installation)

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
5,500lm	94W
Luminous efficacy	LED module life
58.5lm/W	40,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,000K (Daylight)	68

Specifications

Body: Diecast aluminum

Front panel: Tempered glass

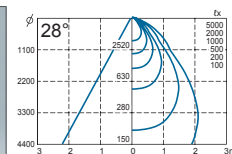
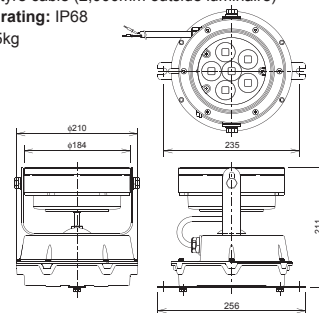
Arm: Stainless

Bracket: Stainless

Cable: Cabtyre cable (2,000mm outside luminaire)

Protection rating: IP68

Weight: 6.5kg



Underwater/outdoor

EW0726LW/SA1/2.4 (For transmission)

EW0726LW/SA1/2.4E (For unit installation)

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
3,900lm	94W
Luminous efficacy	LED module life
41.5lm/W	40,000hours
Light color	Color rendering index (Ra)
Equivalent to 3,000K (Warm white)	80

Specifications

Body: Diecast aluminum

Front panel: Tempered glass

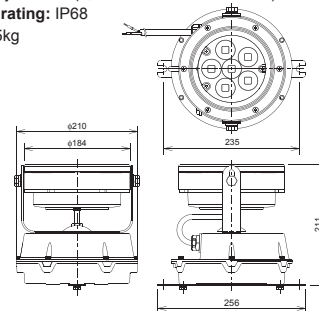
Arm: Stainless

Bracket: Stainless

Cable: Cabtyre cable (2,000mm outside luminaire)

Protection rating: IP68

Weight: 6.5kg

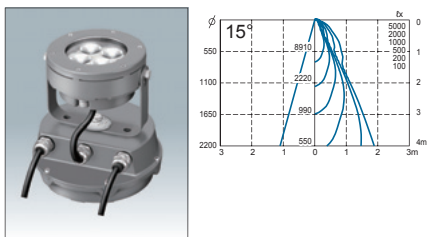


* The horizontal plane illumination distribution diagram above indicates initial values (unit: lx).

* The luminaires can also be provided in blue, green and red light color models.

60W type

Narrow beam



Underwater/outdoor

EW0524N/SA1/2.4 (For transmission)

EW0524N/SA1/2.4E (For unit installation)

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
3,600lm	60W
Luminous efficacy	LED module life
60.0lm/W	40,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,000K (Daylight)	68

Specifications

Body: Diecast aluminum

Front panel: Tempered glass

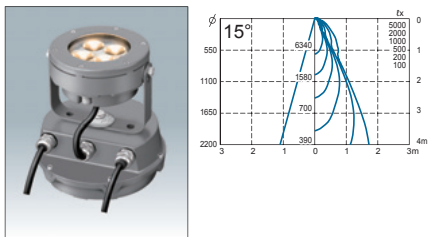
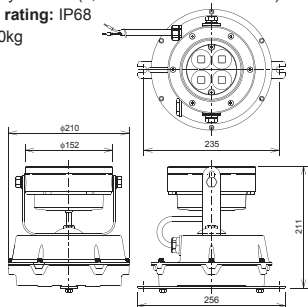
Arm: Stainless

Bracket: Stainless

Cable: Cabtyre cable (2,000mm outside luminaire)

Protection rating: IP68

Weight: 6.0kg



Underwater/outdoor

EW0524LW/SA1/2.4 (For transmission)

EW0524LW/SA1/2.4E (For unit installation)

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
2,600lm	60W
Luminous efficacy	LED module life
43.3lm/W	40,000hours
Light color	Color rendering index (Ra)
Equivalent to 3,000K (Warm white)	80

Specifications

Body: Diecast aluminum

Front panel: Tempered glass

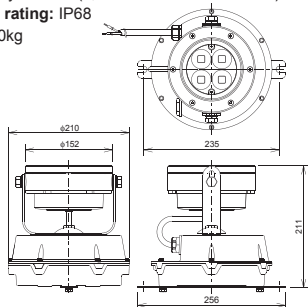
Arm: Stainless

Bracket: Stainless

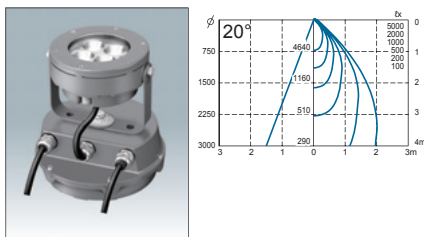
Cable: Cabtyre cable (2,000mm outside luminaire)

Protection rating: IP68

Weight: 6.0kg



Medium beam



Underwater/outdoor

EW0525N/SA1/2.4 (For transmission)

EW0525N/SA1/2.4E (For unit installation)

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
3,700lm	60W
Luminous efficacy	LED module life
61.7lm/W	40,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,000K (Daylight)	68

Specifications

Body: Diecast aluminum

Front panel: Tempered glass

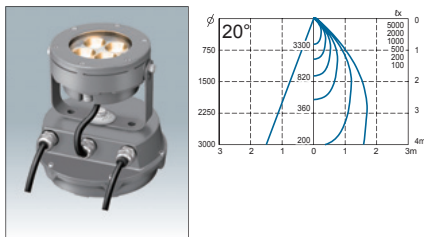
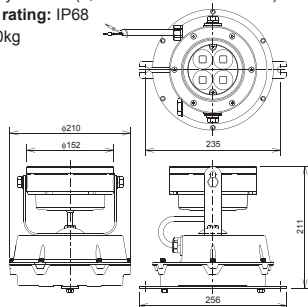
Arm: Stainless

Bracket: Stainless

Cable: Cabtyre cable (2,000mm outside luminaire)

Protection rating: IP68

Weight: 6.0kg



Underwater/outdoor

EW0525LW/SA1/2.4 (For transmission)

EW0525LW/SA1/2.4E (For unit installation)

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
2,650lm	60W
Luminous efficacy	LED module life
44.2lm/W	40,000hours
Light color	Color rendering index (Ra)
Equivalent to 3,000K (Warm white)	80

Specifications

Body: Diecast aluminum

Front panel: Tempered glass

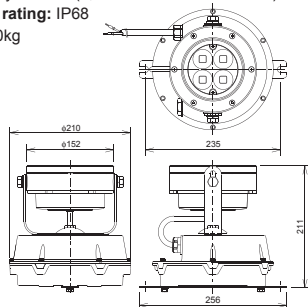
Arm: Stainless

Bracket: Stainless

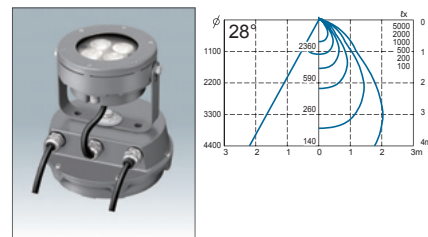
Cable: Cabtyre cable (2,000mm outside luminaire)

Protection rating: IP68

Weight: 6.0kg



Wide beam



Underwater/outdoor

EW0526N/SA1/2.4 (For transmission)

EW0526N/SA1/2.4E (For unit installation)

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
3,700lm	60W
Luminous efficacy	LED module life
61.7lm/W	40,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,000K (Daylight)	68

Specifications

Body: Diecast aluminum

Front panel: Tempered glass

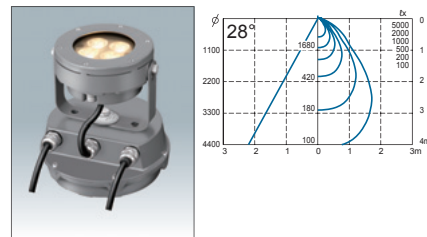
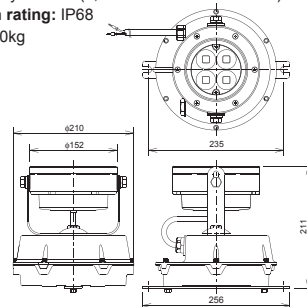
Arm: Stainless

Bracket: Stainless

Cable: Cabtyre cable (2,000mm outside luminaire)

Protection rating: IP68

Weight: 6.0kg



Underwater/outdoor

EW0526LW/SA1/2.4 (For transmission)

EW0526LW/SA1/2.4E (For unit installation)

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
2,650lm	60W
Luminous efficacy	LED module life
44.2lm/W	40,000hours
Light color	Color rendering index (Ra)
Equivalent to 3,000K (Warm white)	80

Specifications

Body: Diecast aluminum

Front panel: Tempered glass

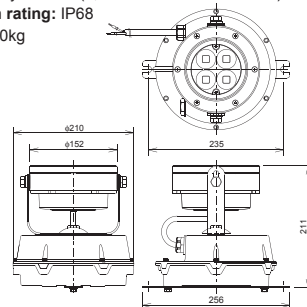
Arm: Stainless

Bracket: Stainless

Cable: Cabtyre cable (2,000mm outside luminaire)

Protection rating: IP68

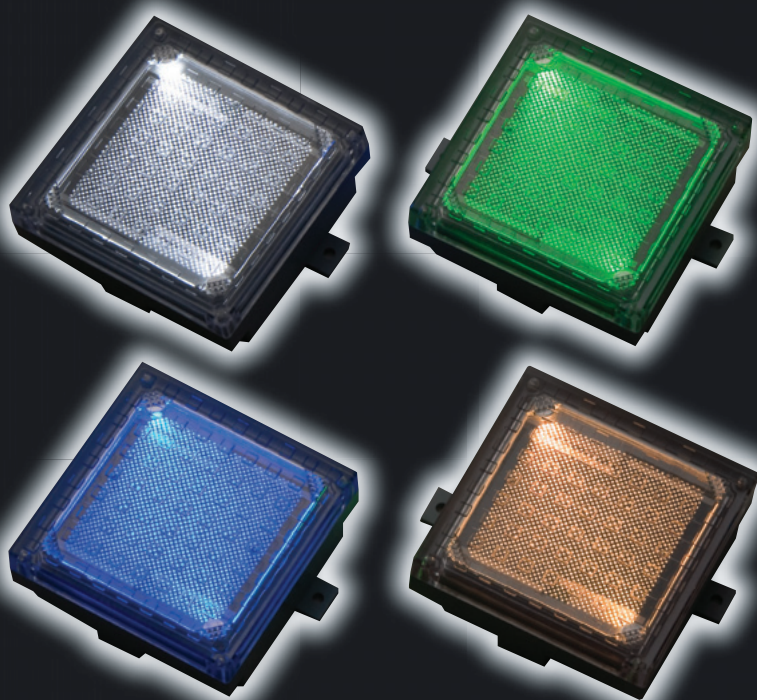
Weight: 6.0kg



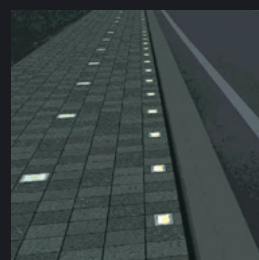
* The horizontal plane illumination distribution diagram above indicates initial values (unit: lx).

* The luminaires can also be provided in blue, green and red light color models.

Solar LED Block and Tile Series



Stores light in the daytime.



Emits light at night.

As a solar powered LED system, it does not need a power supply and there are no running costs! It can be used as an evacuating light in the event of emergencies.

Description of four features

- **Long life makes it virtually maintenance free**

Unlike conventional devices, the electrical double layer capacitor provides at least 100,000 charge/discharge cycles eliminating the need for battery replacements. As the light-emitting element is an LED, there is no need for bulb replacements or other time-consuming maintenance work.

- **All-weather (depending on installation conditions)**

Use of highly efficient circuits and an amorphous solar cell make it possible to charge the electrical double layer capacitor even during days of little sunlight (in cloudy or rainy weather).

- **Environmentally friendly**

The LED uses natural solar energy and the battery contains no hazardous heavy metals (lead or cadmium) and will therefore not impact the environment.

- **High durability design**

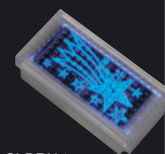
Durability design makes it highly impervious to impact. Thanks to a hermetically sealed construction, it is not affected by wind or rain. The polycarbonate resin used in the top case prevents discoloration of the resin from ultraviolet rays.

The product can be manufactured to custom designs.

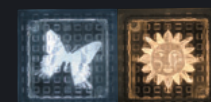
The Solar LED can be customized to display a wide variety of designs such as symbols, company names, logos or directions. Please feel free to consult us for more information.



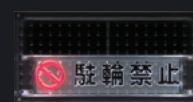
Clear dot type



SLBRN type



SLB100 type



SLB8L type

Solar LED series safety mechanism



In humid conditions, the Solar LED has a skid resistance equal to or exceeding the BPN 40 skid resistance requirement set by the Tokyo Welfare Urban Planning Regulations. The 1-mm tape around the edges increases safety by reducing any height differences between the Solar LED and the ground. (Not available for the clear dot type Solar LED)

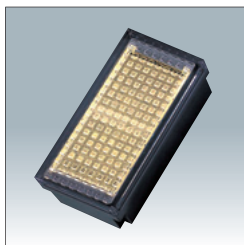


Surface-emitting LED White type

Weather-proof

8-hour surface-emitting LED
SLBRN/W
 14-hour surface-emitting LED,
 long-hour type
SLBRN/W-14

LED module life
 40,000hours



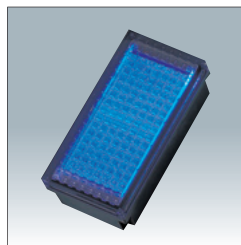
Surface-emitting LED

Warm white

Weather-proof

8-hour surface-emitting LED
SLBRN/L
 14-hour surface-emitting LED,
 long-hour type
SLBRN/L-14

LED module life
 40,000hours

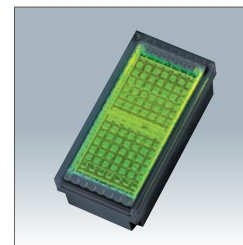


Surface-emitting LED Blue type

Weather-proof

8-hour surface-emitting LED
SLBRN/B
 14-hour surface-emitting LED,
 long-hour type
SLBRN/B-14

LED module life
 40,000hours



Surface-emitting LED Green type

Weather-proof

8-hour surface-emitting LED
SLBRN/G
 14-hour surface-emitting LED,
 long-hour type
SLBRN/G-14

LED module life
 40,000hours

Shared specifications

Body: Polycarbonate resin (top and bottom case)

Solar cell: Amorphous silicon

Battery: Electrical double layer capacitor

Operating time

(when fully charged): 8hours (surface-emitting LED)
 14hours (surface-emitting LED,
 long-hour type)

Charging time

(to fully charge): 6hours (20,000lx in cloudy weather)

On/off: Goes on automatically at dusk and turns off
 automatically at sunup

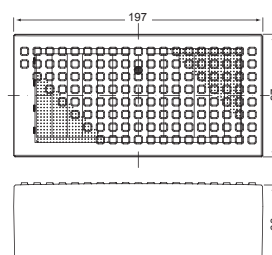
Skid resistance (when wet): 40BPN or more

Weight: 0.94kg

* Clear dot type that permit custom designs

<Installation precautions>

- The Solar LED should be installed in a location where it receives at least 6hours of sunlight per day.
- Avoid locations that will be snow covered in wintertime.
- Do not install it in locations where vehicles will drive over it.
- Do not install it in low spots where water may collect.
- Since the Solar LED relies on a solar cell for power, weather, location of installation and other conditions may affect brightness, lighting times and can even prevent the LED from lighting.
- The Solar LED may not light at night if installed in a location exposed to excessively bright lights after dark.
- The Solar LED should be regularly cleaned as soiling on the solar cell surface may cause the power generating efficiency to drop or even impact the life of the product.

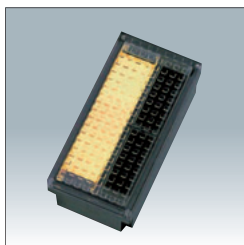


High luminance type White type

Weather-proof

8-hour surface-emitting, high
 luminance LED
SLB8L/W

LED module life
 40,000hours



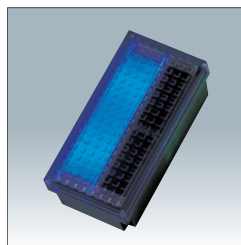
High luminance type

Warm white

Weather-proof

8-hour surface-emitting, high
 luminance LED
SLB8L/L

LED module life
 40,000hours

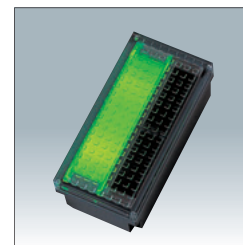


High luminance type Blue type

Weather-proof

8-hour surface-emitting, high
 luminance LED
SLB8L/B

LED module life
 40,000hours



High luminance type Green type

Weather-proof

8-hour surface-emitting, high
 luminance LED
SLB8L/G

LED module life
 40,000hours

Shared specifications

Body: Polycarbonate resin (top and bottom case)

Solar cell: Single-crystal silicon

Battery: Electrical double layer capacitor

Operating time (when fully charged): 8hours

Charging time

(to fully charge): 6hours (20,000lx in cloudy weather)

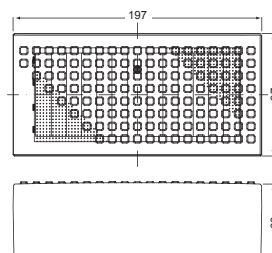
On/off: Goes on automatically at dusk and turns off
 automatically at sunup

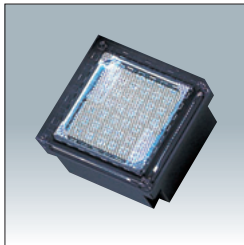
Skid resistance (when wet): 40BPN or more

Weight: 0.92kg

<Installation precautions>

- The Solar LED should be installed in a location where it receives at least 6hours of sunlight per day.
- Avoid locations that will be snow covered in wintertime.
- Do not install it in locations where vehicles will drive over it.
- Do not install it in low spots where water may collect.
- Since the Solar LED relies on a solar cell for power, weather, location of installation and other conditions may affect brightness, lighting times and can even prevent the LED from lighting.
- The Solar LED may not light at night if installed in a location exposed to excessively bright lights after dark.
- The Solar LED should be regularly cleaned as soiling on the solar cell surface may cause the power generating efficiency to drop or even impact the life of the product.

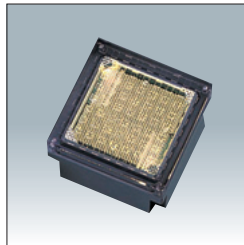




Surface-emitting LED White type
Weather-proof

8-hour, square surface-emitting LED
SLB100/W
15-hour, square surface-emitting,
flashing LED
SLB100/W-H

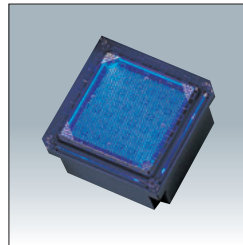
LED module life
40,000hours



Surface-emitting LED Warm white
Weather-proof

8-hour, square surface-emitting LED
SLB100/L
15-hour, square surface-emitting,
flashing LED
SLB100/L-H

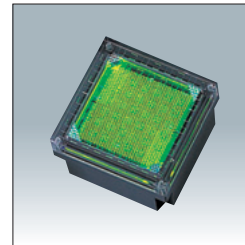
LED module life
40,000hours



Surface-emitting LED Blue type
Weather-proof

8-hour, square surface-emitting LED
SLB100/B
15-hour, square surface-emitting,
flashing LED
SLB100/B-H

LED module life
40,000hours



Surface-emitting LED Green type
Weather-proof

8-hour, square surface-emitting LED
SLB100/G
15-hour, square surface-emitting,
flashing LED
SLB100/G-H

LED module life
40,000hours

Shared specifications

Body: Polycarbonate resin (top case) PC/ABS resin
(bottom case)

Solar cell: Amorphous silicon

Battery: Electrical double layer capacitor

Operating time

(when fully charged): 8hours (square surface-emitting LED)
15hours (square surface-emitting,
flashing LED)

Charging time

(to fully charge): 6hours (20,000fx in cloudy weather)

On/off: Goes on automatically at dusk and turns off
automatically at sunup

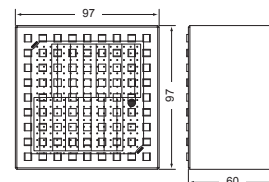
Skid resistance (when wet): 40BPN or more

Weight: 0.49kg

* Clear dot type that permit custom designs

<Installation precautions>

- The Solar LED should be installed in a location where it receives at least 6hours of sunlight per day.
- Avoid locations that will be snow covered in wintertime.
- Do not install it in locations where vehicles will drive over it.
- Do not install them in low spots where water may collect.
- Since the Solar LED relies on a solar cell for power, weather, location of installation and other conditions may affect brightness, lighting times and can even prevent the LED from lighting.
- The Solar LED may not light at night if installed in a location exposed to excessively bright lights after dark.
- The Solar LED should be regularly cleaned as soiling on the solar cell surface may cause the power generating efficiency to drop or even impact the life of the product.



Surface-emitting LED White type
Weather-proof

8-hour, round surface-emitting LED
SLB85/W
15-hour, round surface-emitting,
flashing LED
SLB85/W-H

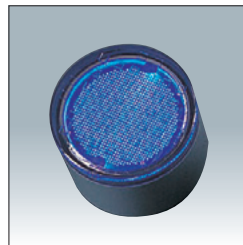
LED module life
40,000hours



Surface-emitting LED Warm white
Weather-proof

8-hour, round surface-emitting LED
SLB85/L
15-hour, round surface-emitting,
flashing LED
SLB85/L-H

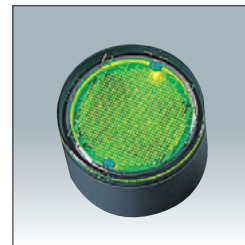
LED module life
40,000hours



Surface-emitting LED Blue type
Weather-proof

8-hour, round surface-emitting LED
SLB85/B
15-hour, round surface-emitting,
flashing LED
SLB85/B-H

LED module life
40,000hours



Surface-emitting LED Green type
Weather-proof

8-hour, round surface-emitting LED
SLB85/G
15-hour, round surface-emitting,
flashing LED
SLB85/G-H

LED module life
40,000hours

Shared specifications

Body: Polycarbonate resin (top case) PC/ABS resin
(bottom case)

Solar cell: Amorphous silicon

Battery: Electrical double layer capacitor

Operating time

(when fully charged): 8hours (round surface-emitting LED)
15hour (round surface-emitting,
flashing LED)

Charging time

(to fully charge): 10hours (20,000fx in cloudy weather)

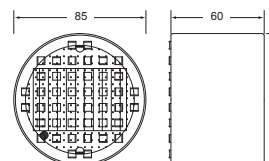
On/off: Goes on automatically at dusk and turns off
automatically at sunup

Skid resistance (when wet): 40BPN or more

Weight: 0.3kg

<Installation precautions>

- The Solar LED should be installed in a location where it receives at least 6hours of sunlight per day.
- Avoid locations that will be snow covered in wintertime.
- Do not install it in locations where vehicles will drive over it.
- Do not install it in low spots where water may collect.
- Since the Solar LED relies on a solar cell for power, weather, location of installation and other conditions may affect brightness, lighting times and can even prevent the LED from lighting.
- The Solar LED may not light at night if installed in a location exposed to excessively bright lights after dark.
- The Solar LED should be regularly cleaned as soiling on the solar cell surface may cause the power generating efficiency to drop or even impact the life of the product.



SOLAR LED TILE

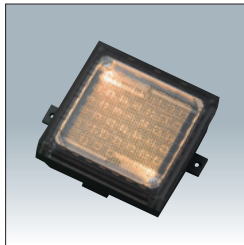


Surface-emitting LED White type

Low profile Weather-proof

8-hour, square surface-emitting LED
SLT35/W

LED module life
40,000hours



Surface-emitting LED Warm white

Low profile Weather-proof

8-hour, square surface-emitting LED
SLT35/D

LED module life
40,000hours

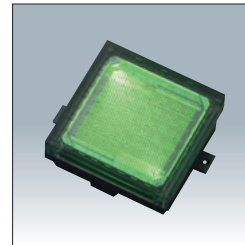


Surface-emitting LED Blue type

Low profile Weather-proof

8-hour, square surface-emitting LED
SLT35/B

LED module life
40,000hours



Surface-emitting LED Green type

Low profile Weather-proof

8-hour, square surface-emitting LED
SLT35/G

LED module life
40,000hours

Shared specifications

Body: Polycarbonate resin (top case) PC/ABS resin (bottom case)

Solar cell: Amorphous silicon

Battery: Electrical double layer capacitor

Operating time (when fully charged): 8hours

Charging time

(to fully charge): 6hours (20,000tx in cloudy weather)

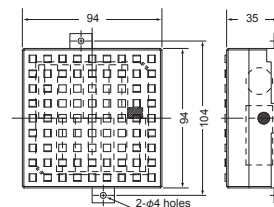
On/off: Goes on automatically at dusk and turns off automatically at sunup

Skid resistance (when wet): 40BPN or more

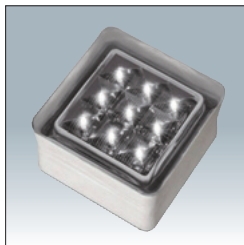
Weight: 0.29kg

<Installation precautions>

- The Solar LED should be installed in a location where it receives at least 6 hours of sunlight per day.
- Avoid locations that will be snow covered in wintertime.
- Do not install it in locations where vehicles will drive over it.
- Do not install it in low spots where water may collect.
- Since the Solar LED relies on a solar cell for power, weather, location of installation and other conditions may affect brightness, lighting times and can even prevent the LED from lighting.
- The Solar LED may not light at night if installed in a location exposed to excessively bright lights after dark.
- The Solar LED should be regularly cleaned as soiling on the solar cell surface may cause the power generating efficiency to drop or even impact the life of the product.



SOLAR LED GLASS BLOCK

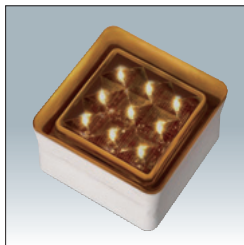


Surface-emitting LED White type

Weather-proof

8-hour, surface-emitting LED
SLB120G/W

LED module life
40,000hours



Surface-emitting LED Warm white

Weather-proof

8-hour, surface-emitting LED
SLB120G/L

LED module life
40,000hours

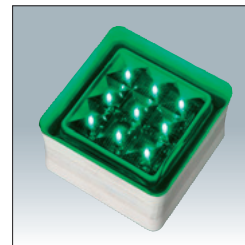


Surface-emitting LED Blue type

Weather-proof

8-hour, surface-emitting LED
SLB120G/B

LED module life
40,000hours



Surface-emitting LED Green type

Weather-proof

8-hour, surface-emitting LED
SLB120G/G

LED module life
40,000hours

Shared specifications

Body: Hard glass

Solar cell: Single-crystal silicon

Battery: Electrical double layer capacitor

Operating time (when fully charged): 8hours

Charging time

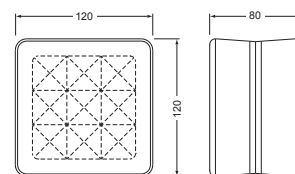
(to fully charge): 6hours (20,000tx in cloudy weather)

On/off: Goes on automatically at dusk and turns off automatically at sunup

Weight: 1.7kg

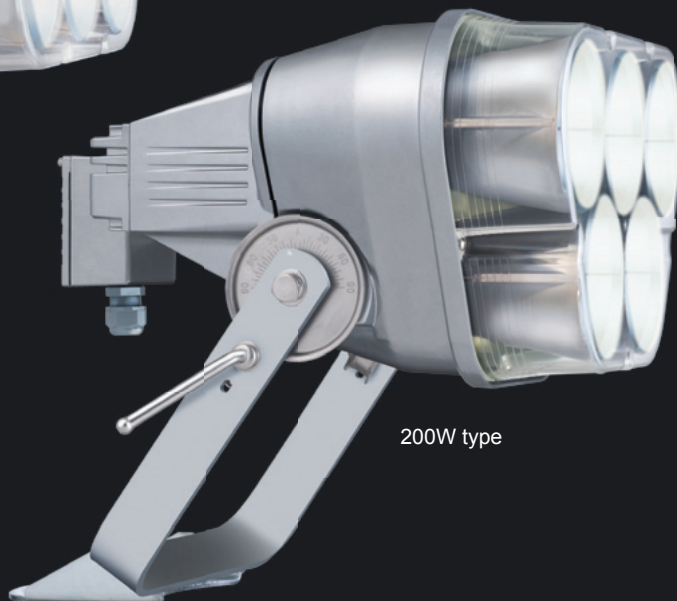
<Installation precautions>

- The Solar LED should be installed in a location where it receives at least 6hours of sunlight per day.
- Avoid locations that will be snow covered in wintertime.
- Do not install it in locations where vehicles will drive over it.
- Do not install in low spots where water may collect.
- Also, do not subject to impact from hard or heavy objects. Doing so may damage the device and/or cause physical injury from broken glass.
- Since the Solar LED relies on a solar cell for power, weather, location of installation and other conditions may affect brightness, lighting times and can even prevent the LED from lighting.
- The Solar LED may not light at night if installed in a location exposed to excessively bright lights after dark.
- The Solar LED should be regularly cleaned as soiling on the solar cell surface may cause the power generating efficiency to drop or even impact the life of the product.





400W type



200W type

LEDiOC FLOOD BLITZ

Substantial energy savings

Lower electricity consumption and CO₂ emissions than HID floodlights.

- 400W type....About a 61% energy saving when compared to a 1kW HID floodlight
- 200W type....About a 51% energy saving when compared to a 400W HID floodlight

Long life means less maintenance

- LED module life of up to 40,000hours. Long life means less lamp replacement work.

Major usage examples Signboard lighting

Large and medium billboards



Hanging banners

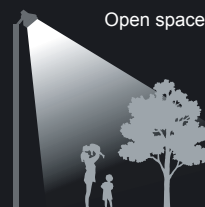


Area light

Large parking lots



Open spaces



Landscape lighting

Monuments
Trees



Large buildings



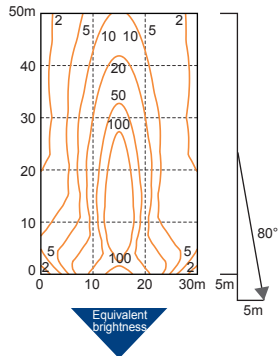
Suppresses unnecessary light to achieve substantial energy savings and reductions in CO₂ emissions

The high directional characteristics of LEDs have been combined with high-performance reflective mirrors to suppress unnecessary light outside the illumination area to minimize energy waste and achieve substantial energy savings and reductions in CO₂ emissions.

Comparison example



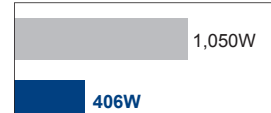
HID floodlight (H566SX)
1,000W metal halide lamp (M1000LS/BD)



HID floodlight
(H566SX)
1,000W metal halide lamp
(M1000LS/BD)

**LEDioc
FLOOD BLITZ 400W type**
(E4021N/SA1/2.4)

Power consumption*1



An energy saving of roughly 61%

Annual amount of CO₂ emissions*2



About a 1,108kg reduction in CO₂

Lifetime



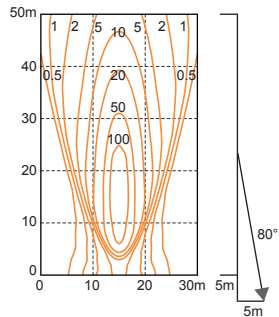
About 4.4 times

*1 Power consumption for 200V metal halide lamp (standard HPF ballast) and LED lamp operating at 200V.

*2 CO₂ emission volume is calculated based on 0.43kg of CO₂ per kWh.



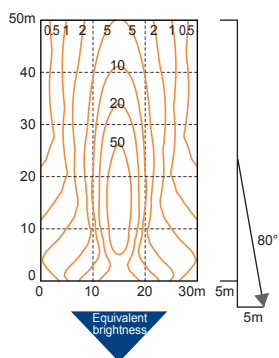
**LEDioc
FLOOD BLITZ 400W type**
(Narrow beam)



Comparison example



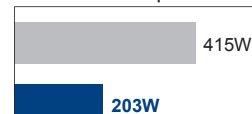
HID floodlight (H366SX)
400W metal halide lamp (M400LSH/U)



HID floodlight
(H366SX)
400W metal halide lamp
(M400LSH/U)

**LEDioc
FLOOD BLITZ 200W type**
(E2021N/SA1/2.4)

Power consumption*1



An energy saving of roughly 51%

Annual amount of CO₂ emissions*2



About a 365kg reduction in CO₂

Lifetime



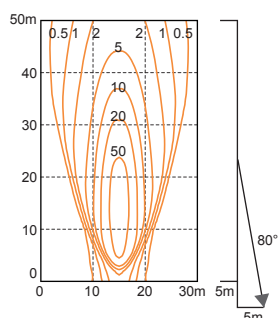
About 3.3 times

*1 Power consumption for 200V metal halide lamp (standard HPF ballast) and LED lamp operating at 200V.

*2 CO₂ emission volume is calculated based on 0.43kg of CO₂ per kWh.



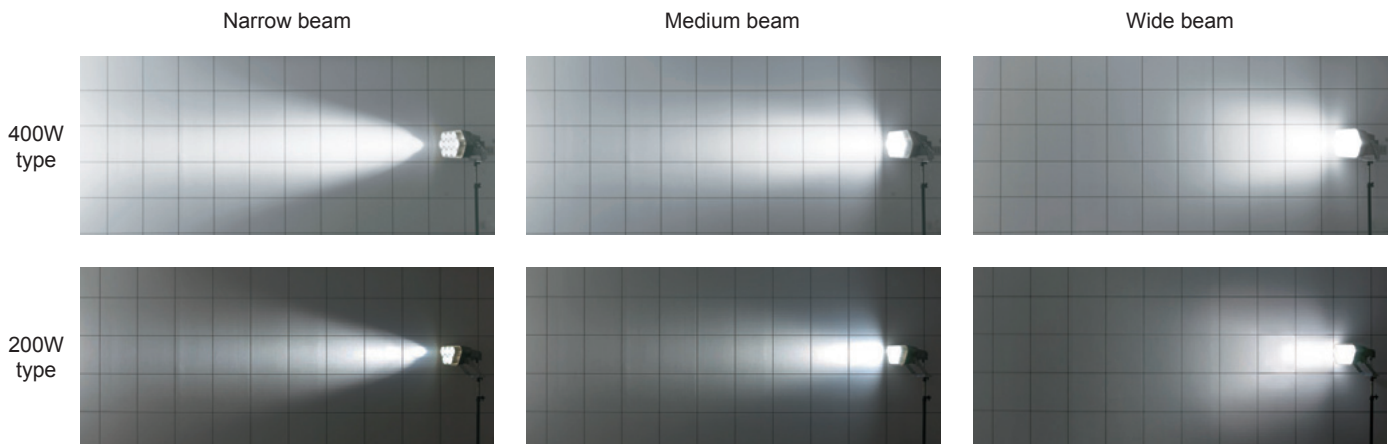
**LEDioc
FLOOD BLITZ 200W type**
(Narrow beam)



* Above illuminance diagram indicates initial values (unit: lx).

Extensive and varied lineup

Two different levels of brightness - 400W and 200W - and narrow, medium and wide light distribution make it easy to find a floodlight that provides efficient lighting for any application.

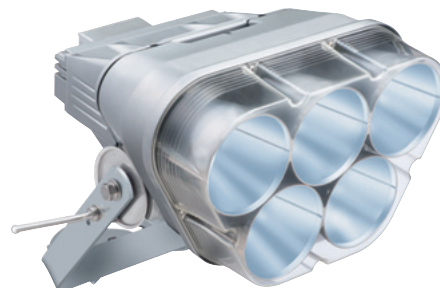


Natural beam distribution

Reflectors control light distribution to ensure natural distribution of light.



400W type



200W type

Instant start

LEDs go on instantly, there is no warm up period. The ease they can be turned on and off makes them ideal for landscape lighting.

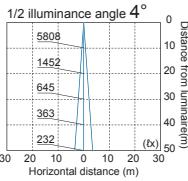
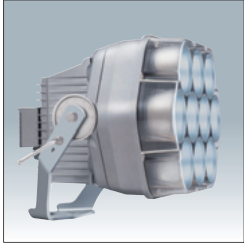
A long rated life of 40,000hours

The rated life of an LED is 40,000hours. This considerably reduces the need for maintenance making them the ideal floodlights for use in locations where maintenance is a challenge.

Environmentally friendly (low insect attraction and mercury free)

LEDs reduce light output at wavelengths that attract insects. The light they produce is beneficial for the surrounding ecosystem by deterring insects. Completely free of mercury makes them environmentally friendly.

400W type



Narrow beam

Weather-proof

E4021N/SA1/2.4

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
28,900lm	424W (100V) 406W (200V) 402W (240V)

Luminous efficacy
68.2lm/W (100V) 71.2lm/W (200V) 71.9lm/W (240V)

LED module life	Light color	Color rendering index (Ra)
40,000hours	Equivalent to 5,000K (Daylight)	68

Specifications

Body: Diecast aluminum

Reflector: Diecast aluminum

Front cover: Acrylic (clear)

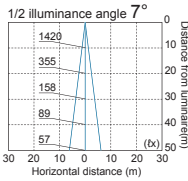
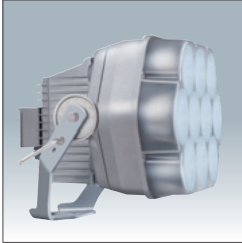
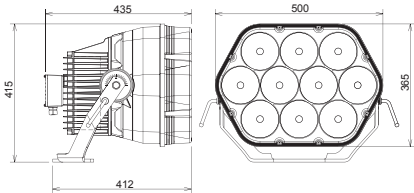
Arm with stand: Steel plate (hot dip galvanizing)

Finish color: Metallic gray

1/10 beam angle: 23°

Installation angle: Any position (no limitation)

Weight: 28kg



Medium beam

Weather-proof

E4022N/SA1/2.4

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
25,700lm	424W (100V) 406W (200V) 402W (240V)

Luminous efficacy
60.6lm/W (100V) 63.3lm/W (200V) 63.9lm/W (240V)

LED module life	Light color	Color rendering index (Ra)
40,000hours	Equivalent to 5,000K (Daylight)	68

Specifications

Body: Diecast aluminum

Reflector: Diecast aluminum

Front cover: Acrylic (frosted)

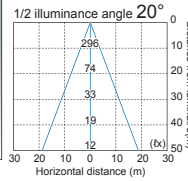
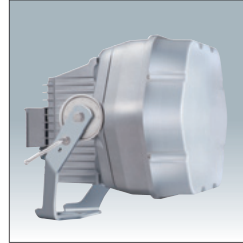
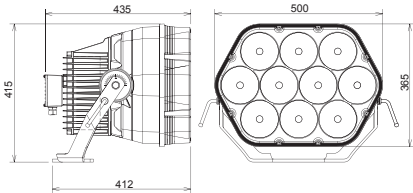
Arm with stand: Steel plate (hot dip galvanizing)

Finish color: Metallic gray

1/10 beam angle: 39°

Installation angle: Any position (no limitation)

Weight: 28kg



Wide beam

Weather-proof

E4023N/SA1/2.4

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
26,000lm	424W (100V) 406W (200V) 402W (240V)

Luminous efficacy
61.3lm/W (100V) 64.0lm/W (200V) 64.7lm/W (240V)

LED module life	Light color	Color rendering index (Ra)
40,000hours	Equivalent to 5,000K (Daylight)	68

Specifications

Body: Diecast aluminum

Reflector: Diecast aluminum

Front cover: Acrylic (frosted)

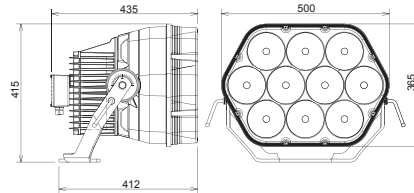
Arm with stand: Steel plate (hot dip galvanizing)

Finish color: Metallic gray

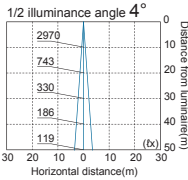
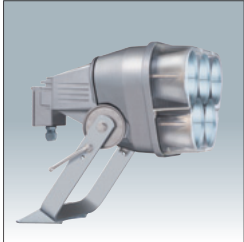
1/10 beam angle: 89°

Installation angle: Any position (no limitation)

Weight: 28kg



200W type



Narrow beam

Weather-proof

E2021N/SA1/2.4

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
14,300lm	212W (100V) 203W (200V) 201W (240V)

Luminous efficacy
67.5lm/W (100V) 70.4lm/W (200V) 71.1lm/W (240V)

LED module life	Light color	Color rendering index (Ra)
40,000hours	Equivalent to 5,000K (Daylight)	68

Specifications

Body: Diecast aluminum

Reflector: Diecast aluminum

Front cover: Acrylic (clear)

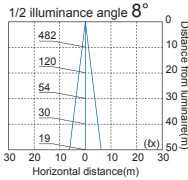
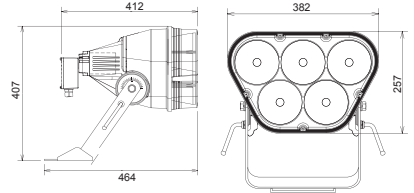
Arm with stand: Steel plate (hot dip galvanizing)

Finish color: Metallic gray

1/10 beam angle: 23°

Installation angle: Any position (no limitation)

Weight: 16kg



Medium beam

Weather-proof

E2022N/SA1/2.4

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
12,500lm	212W (100V) 203W (200V) 201W (240V)

Luminous efficacy
59.0lm/W (100V) 61.6lm/W (200V) 62.2lm/W (240V)

LED module life	Light color	Color rendering index (Ra)
40,000hours	Equivalent to 5,000K (Daylight)	68

Specifications

Body: Diecast aluminum

Reflector: Diecast aluminum

Front cover: Acrylic (frosted)

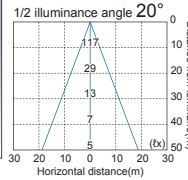
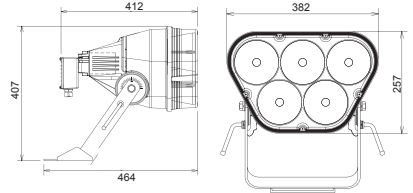
Arm with stand: Steel plate (hot dip galvanizing)

Finish color: Metallic gray

1/10 beam angle: 46°

Installation angle: Any position (no limitation)

Weight: 16kg



Wide beam

Weather-proof

E2023N/SA1/2.4

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
11,900lm	212W (100V) 203W (200V) 201W (240V)

Luminous efficacy
56.1lm/W (100V) 58.6lm/W (200V) 59.2lm/W (240V)

LED module life	Light color	Color rendering index (Ra)
40,000hours	Equivalent to 5,000K (Daylight)	68

Specifications

Body: Diecast aluminum

Reflector: Diecast aluminum

Front cover: Acrylic (frosted)

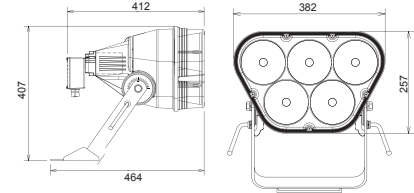
Arm with stand: Steel plate (hot dip galvanizing)

Finish color: Metallic gray

1/10 beam angle: 105°

Installation angle: Any position (no limitation)

Weight: 16kg



* Above illuminance indicates initial values (unit: lx).

LEDiOC FLOOD NEO

- A compact floodlight with the industry's highest level of brightness.
- 3-type lineup including narrow, medium and wide beam types.
- An any position operation mechanism enables installation in virtually any direction and at any angle.
- A specially built-in power supply unit enables operation using 100 to 240V AC, 50/60Hz common.



95W

As bright as a 500W self ballast mercury lamp while saving about 82% of energy.



50W

As bright or brighter than a 250W halogen lamp while saving 80% of energy.

35W

As bright or brighter than a 250W halogen lamp while saving 86% of energy.



95W

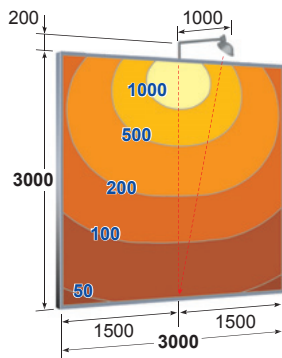
Comparison example



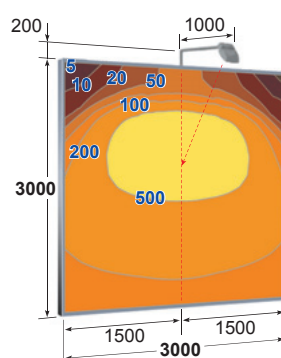
Self ballast mercury lamp holder
(S0/W-L14)
500W self ballast mercury lamp
(BHRF200/220V500WH)



LEDioc FLOOD NEO 95W
(Wide beam type, Daylight type
ECF0773N/SAI/2.4/DG)



Initial average illuminance 299lx



Initial average illuminance 314lx

Self ballast mercury lamp holder
(S0/W-L14)
500W self ballast mercury lamp
(BHRF200/220V500WH)

LEDioc FLOOD NEO 95W
Wide beam type,
Daylight type
(ECF0773N/SAI/2.4/DG)

Power consumption*1

520W

94W

An energy saving of roughly 82%

Annual amount of
CO₂ emissions*2

About 894kg
of CO₂

About 162kg of CO₂

**About a 732kg
reduction in CO₂**

Lifetime

9,000hours

40,000hours

About 4.4 times

*1 Power consumption for a self ballast mercury lamp: Input power during rated voltage input.
*2 CO₂ emission volume is calculated based on 0.43kg of CO₂ per kWh.

50W

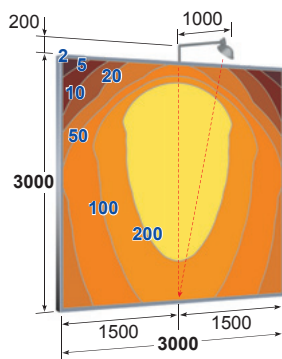
Comparison example



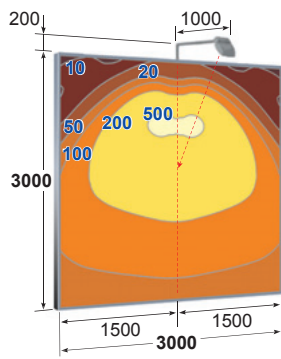
Floodlight for halogen lamp
(JAW0/BK-L14)
250W halogen lamp (JD110V250W/P/M)



LEDioc FLOOD NEO 50W
(Wide beam type, Daylight type
ECF0476N/SAI/2.4/DG)



Initial average illuminance 152lx



Initial average illuminance 174lx

Floodlight for halogen lamp
(JAW0/BK-L14)
250W halogen lamp
(JD110V250W/P/M)

LEDioc FLOOD NEO 50W
Wide beam type,
Daylight type
(ECF0476N/SAI/2.4/DG)

Power consumption*1

250W

50W

80% energy saving

Annual amount of
CO₂ emissions*2

430kg of
CO₂

86kg of CO₂

**344kg
reduction in CO₂**

Lifetime

2,000hours

40,000hours

20 times

*1 Power consumption of a halogen lamp: Input power at rated voltage input.
*2 CO₂ emission volume is calculated based on 0.43kg of CO₂ per kWh.

35W

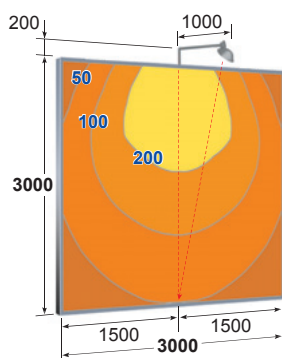
Comparison example



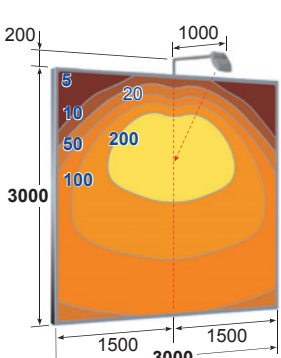
Floodlight for halogen lamp
(JB0/BK-L13)
250W halogen lamp (JD110V250W/P/M)



LEDioc FLOOD NEO 35W
(Wide beam type, Daylight type
ECF0376N/SAI/2.4/DG)



Initial average illuminance 107lx



Initial average illuminance 116lx

Floodlight for halogen lamp
(JB0/BK-L13)
250W halogen lamp
(JD110V250W/P/M)

LEDioc FLOOD NEO 35W
Wide beam type,
Daylight type
(ECF0376N/SAI/2.4/DG)

Power consumption*1

250W

35W

86% energy saving

Annual amount of
CO₂ emissions*2

430kg of CO₂

About 60kg of CO₂

**About a 370kg
reduction in CO₂**

Lifetime

2,000hours

40,000hours

20 times

*1 Power consumption of a halogen lamp: Input power at rated voltage input.
*2 CO₂ emission volume is calculated based on 0.43kg of CO₂ per kWh.

Narrow beam



White



Daylight

Warm white

Weather-proof

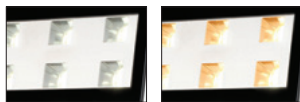
ECF0771N/SA1/2.4/W (Daylight)

ECF0771LW/SA1/2.4/W (Warm white)
(100 to 240V, 50/60Hz)

Medium beam



White



Daylight

Warm white

Weather-proof

ECF0772N/SA1/2.4/W (Daylight)

ECF0772LW/SA1/2.4/W (Warm white)
(100 to 240V, 50/60Hz)

Wide beam



White



Daylight

Warm white

Weather-proof

ECF0773N/SA1/2.4/W (Daylight)

ECF0773LW/SA1/2.4/W (Warm white)
(100 to 240V, 50/60Hz)

Dark grey



Daylight

Warm white

Weather-proof

ECF0771N/SA1/2.4/DG (Daylight)

ECF0771LW/SA1/2.4/DG (Warm white)
(100 to 240V, 50/60Hz)

Dark grey



Daylight

Warm white

Weather-proof

ECF0772N/SA1/2.4/DG (Daylight)

ECF0772LW/SA1/2.4/DG (Warm white)
(100 to 240V, 50/60Hz)

Dark grey



Daylight

Warm white

Weather-proof

ECF0773N/SA1/2.4/DG (Daylight)

ECF0773LW/SA1/2.4/DG (Warm white)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power consumption
5,720lm (Daylight), 4,070lm (Warm white)		94W
Luminous efficacy		LED module life
60.9lm/W (Daylight), 43.3lm/W (Warm white)		40,000hours
Light color		
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)		
Color rendering index (Ra)		
68 (Daylight) 80 (Warm white)		

Specifications

Body: Diecast aluminum (polyester paint)

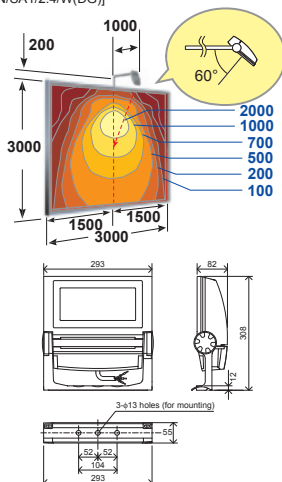
Front cover: Acrylic

Cable: Cabtyre cable (1,500mm outside luminaire)

Installation angle: Any position (no limitation)

Weight: 5.5kg

[ECF0771N/SA1/2.4/W(DG)]



Rated luminous flux (luminaire luminous flux)		Power consumption
5,920lm (Daylight), 4,210lm (Warm white)		94W
Luminous efficacy		LED module life
63.0lm/W (Daylight), 44.8lm/W (Warm white)		40,000hours
Light color		
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)		
Color rendering index (Ra)		
68 (Daylight) 80 (Warm white)		

Specifications

Body: Diecast aluminum (polyester paint)

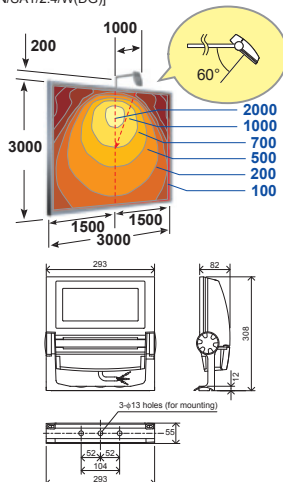
Front cover: Acrylic

Cable: Cabtyre cable (1,500mm outside luminaire)

Installation angle: Any position (no limitation)

Weight: 5.5kg

[ECF0772N/SA1/2.4/W(DG)]



Rated luminous flux (luminaire luminous flux)		Power consumption
6,290lm (Daylight), 4,470lm (Warm white)		94W
Luminous efficacy		LED module life
66.9lm/W (Daylight), 47.6lm/W (Warm white)		40,000hours
Light color		
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)		
Color rendering index (Ra)		
68 (Daylight) 80 (Warm white)		

Specifications

Body: Diecast aluminum (polyester paint)

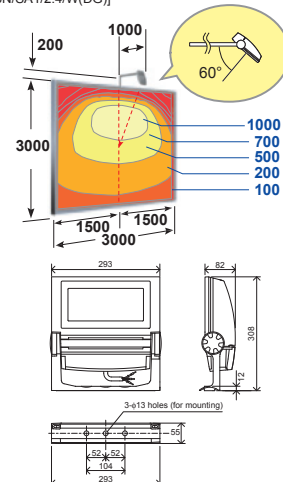
Front cover: Acrylic

Cable: Cabtyre cable (1,500mm outside luminaire)

Installation angle: Any position (no limitation)

Weight: 5.5kg

[ECF0773N/SA1/2.4/W(DG)]



Narrow beam



White



Daylight

Warm white

Dimmable type Weather-proof**ECF0771DN/SA1/2.4/W** (Daylight)**ECF0771DLW/SA1/2.4/W** (Warm white)
(100 to 240V, 50/60Hz)

Dark grey



Daylight

Warm white

Dimmable type Weather-proof**ECF0771DN/SA1/2.4/DG** (Daylight)**ECF0771DLW/SA1/2.4/DG** (Warm white)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
5,720lm (Daylight), 4,070lm (Warm white)	94W
Luminous efficacy	LED module life
60.9lm/W (Daylight), 43.3lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications

Body: Diecast aluminum (polyester paint)**Front cover:** Acrylic**Cable:** Cabtyre cable (1,500mm outside luminaire)**Dimming cable:** Heat-resisting vinyl sheath cable
(1,500mm outside luminaire)**Installation angle:** Any position (no limitation)**Weight:** 5.5kg**Dimming system:** PWM**Compatible dimmer:**

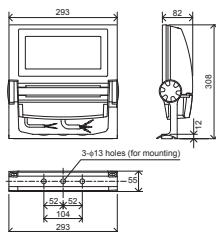
Manual dimmer I.DF-70162-PD

LED EYE sensor system ILX-402 (outdoor motion sensor)

ILC-1C (controller)

ILC-2MC (wireless controller)

* Since a dimming ratio of 10% or more causes LEDs to flicker, set the dimming ratio to 10% or higher.



Medium beam



White



Daylight

Warm white

Dimmable type Weather-proof**ECF0772DN/SA1/2.4/W** (Daylight)**ECF0772DLW/SA1/2.4/W** (Warm white)
(100 to 240V, 50/60Hz)

Dark grey



Daylight

Warm white

Dimmable type Weather-proof**ECF0772DN/SA1/2.4/DG** (Daylight)**ECF0772DLW/SA1/2.4/DG** (Warm white)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
5,920lm (Daylight), 4,210lm (Warm white)	94W
Luminous efficacy	LED module life
63.0lm/W (Daylight), 44.8lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications

Body: Diecast aluminum (polyester paint)**Front cover:** Acrylic**Cable:** Cabtyre cable (1,500mm outside luminaire)**Dimming cable:** Heat-resisting vinyl sheath cable
(1,500mm outside luminaire)**Installation angle:** Any position (no limitation)**Weight:** 5.5kg**Dimming system:** PWM**Compatible dimmer:**

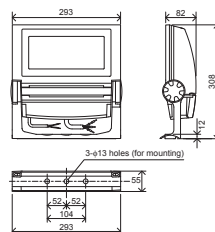
Manual dimmer I.DF-70162-PD

LED EYE sensor system ILX-402 (outdoor motion sensor)

ILC-1C (controller)

ILC-2MC (wireless controller)

* Since a dimming ratio of 10% or more causes LEDs to flicker, set the dimming ratio to 10% or higher.



Wide beam



White



Daylight

Warm white

Dimmable type Weather-proof**ECF0773DN/SA1/2.4/W** (Daylight)**ECF0773DLW/SA1/2.4/W** (Warm white)
(100 to 240V, 50/60Hz)

Dark grey



Daylight

Warm white

Dimmable type Weather-proof**ECF0773DN/SA1/2.4/DG** (Daylight)**ECF0773DLW/SA1/2.4/DG** (Warm white)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
6,290lm (Daylight), 4,470lm (Warm white)	94W
Luminous efficacy	LED module life
66.9lm/W (Daylight), 47.6lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications

Body: Diecast aluminum (polyester paint)**Front cover:** Acrylic**Cable:** Cabtyre cable (1,500mm outside luminaire)**Dimming cable:** Heat-resisting vinyl sheath cable
(1,500mm outside luminaire)**Installation angle:** Any position (no limitation)**Weight:** 5.5kg**Dimming system:** PWM**Compatible dimmer:**

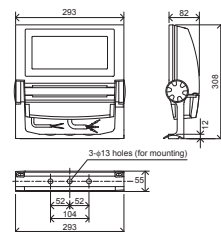
Manual dimmer I.DF-70162-PD

LED EYE sensor system ILX-402 (outdoor motion sensor)

ILC-1C (controller)

ILC-2MC (wireless controller)

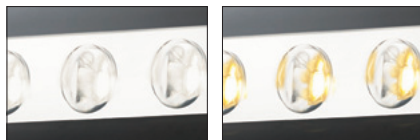
* Since a dimming ratio of 10% or more causes LEDs to flicker, set the dimming ratio to 10% or higher.



Narrow beam



White



Daylight

Warm white

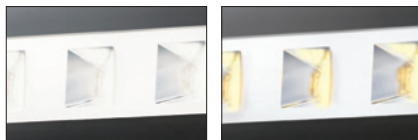
Weather-proof**ECF0474N/SA1/2.4/W** (Daylight)**ECF0474LW/SA1/2.4/W** (Warm white)

(100 to 240V, 50/60Hz)

Medium beam



White



Daylight

Warm white

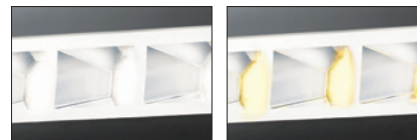
Weather-proof**ECF0475N/SA1/2.4/W** (Daylight)**ECF0475LW/SA1/2.4/W** (Warm white)

(100 to 240V, 50/60Hz)

Wide beam



White



Daylight

Warm white

Weather-proof**ECF0476N/SA1/2.4/W** (Daylight)**ECF0476LW/SA1/2.4/W** (Warm white)

(100 to 240V, 50/60Hz)



Dark grey



Daylight

Warm white

Weather-proof**ECF0474N/SA1/2.4/DG** (Daylight)**ECF0474LW/SA1/2.4/DG** (Warm white)

(100 to 240V, 50/60Hz)



Dark grey



Daylight

Warm white

Weather-proof**ECF0475N/SA1/2.4/DG** (Daylight)**ECF0475LW/SA1/2.4/DG** (Warm white)

(100 to 240V, 50/60Hz)



Dark grey



Daylight

Warm white

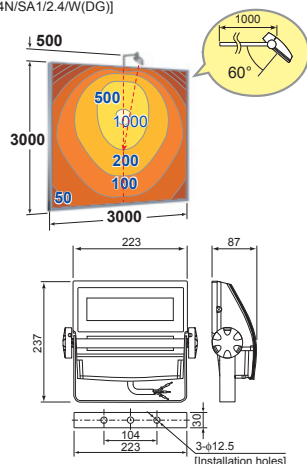
Weather-proof**ECF0476N/SA1/2.4/DG** (Daylight)**ECF0476LW/SA1/2.4/DG** (Warm white)

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
3,220lm (Daylight), 2,290lm (Warm white)	50W
Luminous efficacy	LED module life
64.6lm/W (Daylight), 45.8lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications**Body:** Diecast aluminum (polyester paint)**Front cover:** Acrylic**Cable:** Cabtyre cable (1,500mm outside luminaire)**Installation angle:** Any position (no limitation)**Weight:** 4.0kg

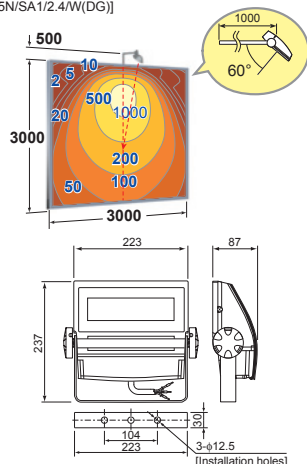
[ECF0474N/SA1/2.4/W(DG)]



Rated luminous flux (luminaire luminous flux)	Power consumption
3,180lm (Daylight), 2,260lm (Warm white)	50W
Luminous efficacy	LED module life
63.6lm/W (Daylight), 45.2lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications**Body:** Diecast aluminum (polyester paint)**Front cover:** Acrylic**Cable:** Cabtyre cable (1,500mm outside luminaire)**Installation angle:** Any position (no limitation)**Weight:** 4.0kg

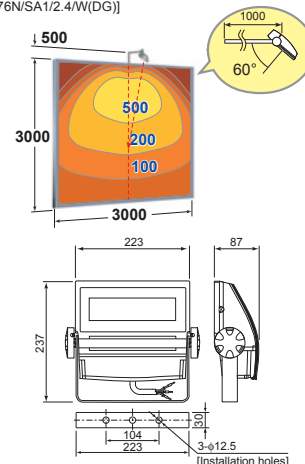
[ECF0475N/SA1/2.4/W(DG)]



Rated luminous flux (luminaire luminous flux)	Power consumption
3,300lm (Daylight), 2,340lm (Warm white)	50W
Luminous efficacy	LED module life
66.0lm/W (Daylight), 46.8lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications**Body:** Diecast aluminum (polyester paint)**Front cover:** Acrylic**Cable:** Cabtyre cable (1,500mm outside luminaire)**Installation angle:** Any position (no limitation)**Weight:** 4.0kg

[ECF0476N/SA1/2.4/W(DG)]



Narrow beam



White



Daylight

Warm white

Weather-proof**ECF0374N/SA1/2.4/W** (Daylight)**ECF0374LW/SA1/2.4/W** (Warm white)

(100 to 240V, 50/60Hz)

Medium beam



White



Daylight

Warm white

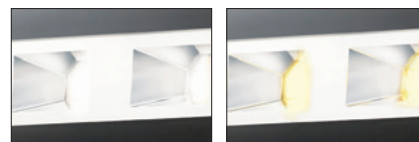
Weather-proof**ECF0375N/SA1/2.4/W** (Daylight)**ECF0375LW/SA1/2.4/W** (Warm white)

(100 to 240V, 50/60Hz)

Wide beam



White



Daylight

Warm white

Weather-proof**ECF0376N/SA1/2.4/W** (Daylight)**ECF0376LW/SA1/2.4/W** (Warm white)

(100 to 240V, 50/60Hz)



Dark grey



Daylight

Warm white

Weather-proof**ECF0374N/SA1/2.4/DG** (Daylight)**ECF0374LW/SA1/2.4/DG** (Warm white)

(100 to 240V, 50/60Hz)



Dark grey



Daylight

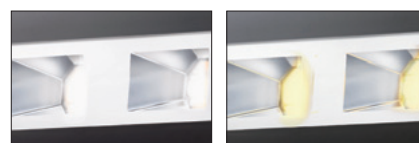
Warm white

Weather-proof**ECF0375N/SA1/2.4/DG** (Daylight)**ECF0375LW/SA1/2.4/DG** (Warm white)

(100 to 240V, 50/60Hz)



Dark grey



Daylight

Warm white

Weather-proof**ECF0376N/SA1/2.4/DG** (Daylight)**ECF0376LW/SA1/2.4/DG** (Warm white)

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
2,150lm (Daylight), 1,530lm (Warm white)	35W

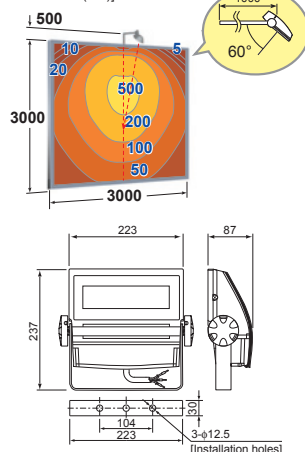
Luminous efficacy	LED module life
61.4lm/W (Daylight), 43.7lm/W (Warm white)	40,000hours

Light color
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)

Color rendering index (Ra)
68 (Daylight) 80 (Warm white)

Specifications**Body:** Diecast aluminum (polyester paint)**Front cover:** Acrylic**Cable:** Cabtyre cable (1,500mm outside luminaire)**Installation angle:** Any position (no limitation)**Weight:** 4.0 kg

[ECF0374N/SA1/2.4/W(DG)]



Rated luminous flux (luminaire luminous flux)	Power consumption
2,120lm (Daylight), 1,510lm (Warm white)	35W

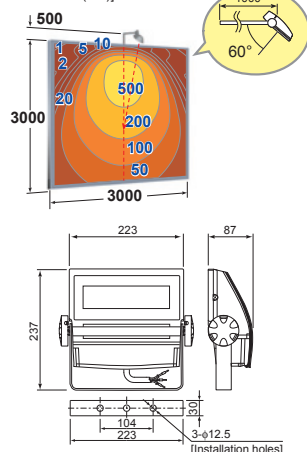
Luminous efficacy	LED module life
60.6lm/W (Daylight), 43.1lm/W (Warm white)	40,000hours

Light color
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)

Color rendering index (Ra)
68 (Daylight) 80 (Warm white)

Specifications**Body:** Diecast aluminum (polyester paint)**Front cover:** Acrylic**Cable:** Cabtyre cable (1,500mm outside luminaire)**Installation angle:** Any position (no limitation)**Weight:** 4.0 kg

[ECF0375N/SA1/2.4/W(DG)]



Rated luminous flux (luminaire luminous flux)	Power consumption
2,200lm (Daylight), 1,560lm (Warm white)	35W

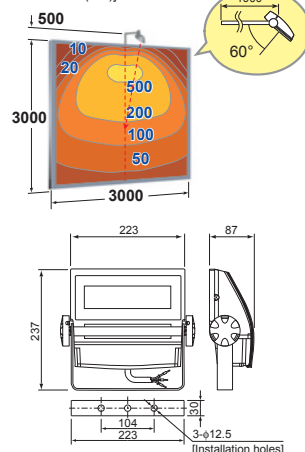
Luminous efficacy	LED module life
62.9lm/W (Daylight), 44.6lm/W (Warm white)	40,000hours

Light color
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)

Color rendering index (Ra)
68 (Daylight) 80 (Warm white)

Specifications**Body:** Diecast aluminum (polyester paint)**Front cover:** Acrylic**Cable:** Cabtyre cable (1,500mm outside luminaire)**Installation angle:** Any position (no limitation)**Weight:** 4.0 kg

[ECF0376N/SA1/2.4/W(DG)]



Narrow beam



White



Daylight

Warm white

Weather-proof**ECF0771N/SD2/W** (Daylight)**ECF0771LW/SD2/W** (Warm white)
(for 24V DC)

Medium beam



White



Daylight

Warm white

Weather-proof**ECF0772N/SD2/W** (Daylight)**ECF0772LW/SD2/W** (Warm white)
(for 24V DC)

Wide beam



White



Daylight

Warm white

Weather-proof**ECF0773N/SD2/W** (Daylight)**ECF0773LW/SD2/W** (Warm white)
(for 24V DC)

Dark grey



Daylight

Warm white

Weather-proof**ECF0771N/SD2/DG** (Daylight)**ECF0771LW/SD2/DG** (Warm white)
(for 24V DC)

Dark grey



Daylight

Warm white

Weather-proof**ECF0772N/SD2/DG** (Daylight)**ECF0772LW/SD2/DG** (Warm white)
(for 24V DC)

Dark grey



Daylight

Warm white

Weather-proof**ECF0773N/SD2/DG** (Daylight)**ECF0773LW/SD2/DG** (Warm white)
(for 24V DC)

Rated luminous flux (luminaire luminous flux)	Power consumption
5,720lm (Daylight), 4,070lm (Warm white)	94W
Luminous efficacy	LED module life
60.9lm/W (Daylight), 43.3lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications

Body: Diecast aluminum (polyester paint)**Front cover:** Acrylic**Cable:** Cabtyre cable (1,500mm outside luminaire)**Installation angle:** Any position (no limitation)**Weight:** 5.5kg

Rated luminous flux (luminaire luminous flux)	Power consumption
5,920lm (Daylight), 4,210lm (Warm white)	94W
Luminous efficacy	LED module life
63.0lm/W (Daylight), 44.8lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications

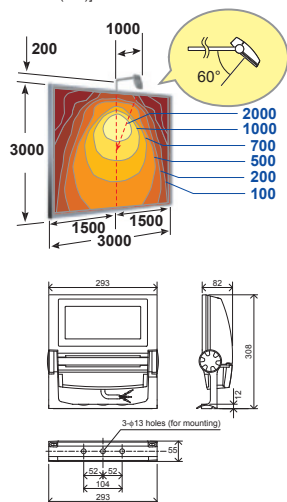
Body: Diecast aluminum (polyester paint)**Front cover:** Acrylic**Cable:** Cabtyre cable (1,500mm outside luminaire)**Installation angle:** Any position (no limitation)**Weight:** 5.5kg

Rated luminous flux (luminaire luminous flux)	Power consumption
6,290lm (Daylight), 4,470lm (Warm white)	94W
Luminous efficacy	LED module life
66.9lm/W (Daylight), 47.6lm/W (Warm white)	40,000hours
Light color	
Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)	
Color rendering index (Ra)	
68 (Daylight) 80 (Warm white)	

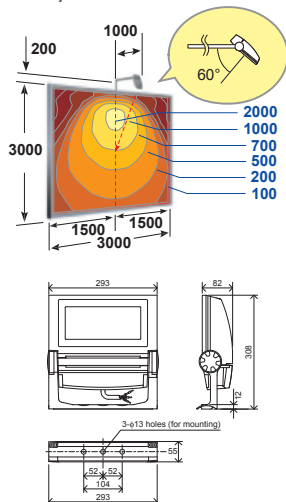
Specifications

Body: Diecast aluminum (polyester paint)**Front cover:** Acrylic**Cable:** Cabtyre cable (1,500mm outside luminaire)**Installation angle:** Any position (no limitation)**Weight:** 5.5kg

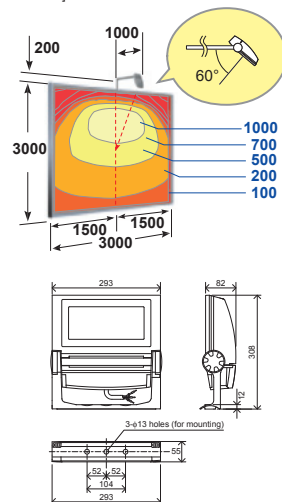
[ECF0771N/SD2/W(DG)]



[ECF0772N/SD2/W]



[ECF0773N/SD2/W]



Narrow beam



White



Red type

Green type

Blue type

Weather-proof

ECF0771R/SA1/2.4/W (red type)**ECF0771G/SA1/2.4/W** (green type)**ECF0771B/SA1/2.4/W** (blue type)

(100 to 240V, 50/60Hz)



Dark grey



Red type

Green type

Blue type

Weather-proof

ECF0771R/SA1/2.4/DG (red type)**ECF0771G/SA1/2.4/DG** (green type)**ECF0771B/SA1/2.4/DG** (blue type)

(100 to 240V, 50/60Hz)

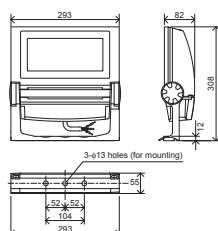
Power consumption

60W (red) 105W (green, blue)

LED module life

40,000hours

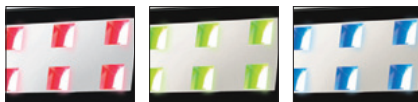
Specifications

Body: Diecast aluminum (polyester paint)**Front cover:** Acrylic**Cable:** Cabtyre cable (1,500mm outside luminaire)**Installation angle:** Any position (no limitation)**Weight:** 5.5kg

Medium beam



White



Red type

Green type

Blue type

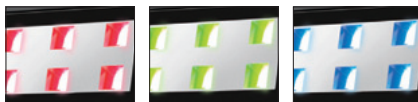
Weather-proof

ECF0772R/SA1/2.4/W (red type)**ECF0772G/SA1/2.4/W** (green type)**ECF0772B/SA1/2.4/W** (blue type)

(100 to 240V, 50/60Hz)



Dark grey



Red type

Green type

Blue type

Weather-proof

ECF0772R/SA1/2.4/DG (red type)**ECF0772G/SA1/2.4/DG** (green type)**ECF0772B/SA1/2.4/DG** (blue type)

(100 to 240V, 50/60Hz)

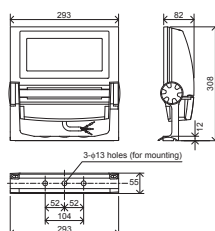
Power consumption

60W (red) 105W (green, blue)

LED module life

40,000hours

Specifications

Body: Diecast aluminum (polyester paint)**Front cover:** Acrylic**Cable:** Cabtyre cable (1,500mm outside luminaire)**Installation angle:** Any position (no limitation)**Weight:** 5.5kg

Wide beam



White



Red type

Green type

Blue type

Weather-proof

ECF0773R/SA1/2.4/W (red type)**ECF0773G/SA1/2.4/W** (green type)**ECF0773B/SA1/2.4/W** (blue type)

(100 to 240V, 50/60Hz)



Dark grey



Red type

Green type

Blue type

Weather-proof

ECF0773R/SA1/2.4/DG (red type)**ECF0773G/SA1/2.4/DG** (green type)**ECF0773B/SA1/2.4/DG** (blue type)

(100 to 240V, 50/60Hz)

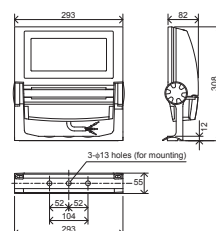
Power consumption

60W (red) 105W (green, blue)

LED module life

40,000hours

Specifications

Body: Diecast aluminum (polyester paint)**Front cover:** Acrylic**Cable:** Cabtyre cable (1,500mm outside luminaire)**Installation angle:** Any position (no limitation)**Weight:** 5.5kg



LEDiOC FLOOD BROAD

One unit provides the brightness equal to four 160W self-ballasted mercury lamps.

An energy savings of roughly 89%.

- LEDiOC FLOOD BROAD features broad light distribution.
- Ideal for sign boards, such as on facades or billboards.
- One lamp can cover a signboard up to 4m wide. The signboard can be viewed in its entirety.



Daylight Weather-proof ECF0671N/SA1/2.4/DG

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
3,860lm	77W
Luminous efficacy	LED module life
50.1lm/W	40,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,000K	68

Specifications

Body: Diecast aluminum (polyester paint)

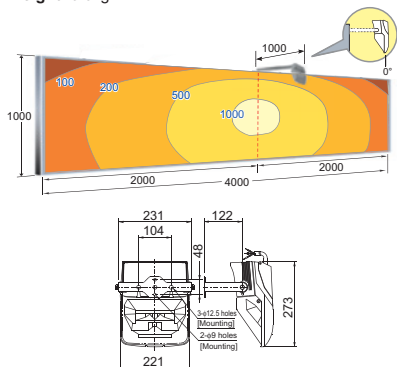
Globe: Acrylic

Cable: Cabtyre cable (1,500mm outside luminaire)

Installation angle: Any position

Finish color: Dark gray

Weight: 5.0kg



Warm white color Weather-proof ECF0671LW/SA1/2.4/DG

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
2,740lm	77W
Luminous efficacy	LED module life
35.6lm/W	40,000hours
Light color	Color rendering index (Ra)
Equivalent to 3,000K	80

Specifications

Body: Diecast aluminum (polyester paint)

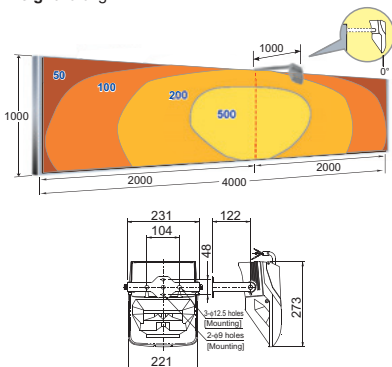
Globe: Acrylic

Cable: Cabtyre cable (1,500mm outside luminaire)

Installation angle: Any position

Finish color: Dark gray

Weight: 5.0kg



Daylight Weather-proof ECF0671N/SA1/2.4/W

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
3,860lm	77W
Luminous efficacy	LED module life
50.1lm/W	40,000hours
Light color	Color rendering index (Ra)
Equivalent to 5,000K	68

Specifications

Body: Diecast aluminum (polyester paint)

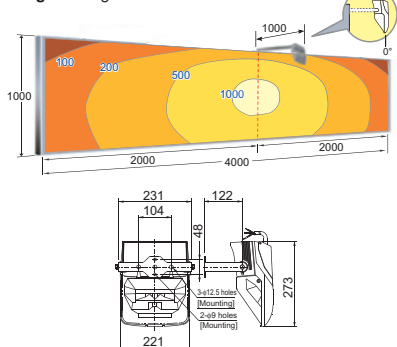
Globe: Acrylic

Cable: Cabtyre cable (1,500mm outside luminaire)

Installation angle: Any position

Finish color: White

Weight: 5.0kg



Warm white color Weather-proof ECF0671LW/SA1/2.4/W

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power consumption
2,740lm	77W
Luminous efficacy	LED module life
35.6lm/W	40,000hours
Light color	Color rendering index (Ra)
Equivalent to 3,000K	80

Specifications

Body: Diecast aluminum (polyester paint)

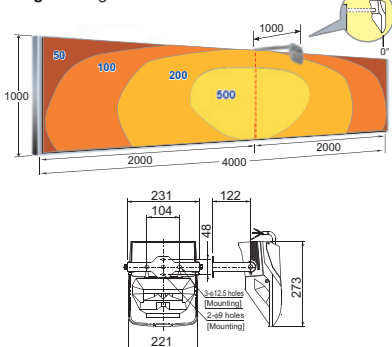
Globe: Acrylic

Cable: Cabtyre cable (1,500mm outside luminaire)

Installation angle: Any position

Finish color: White

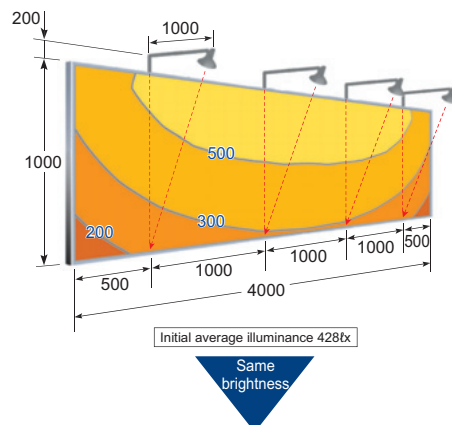
Weight: 5.0kg



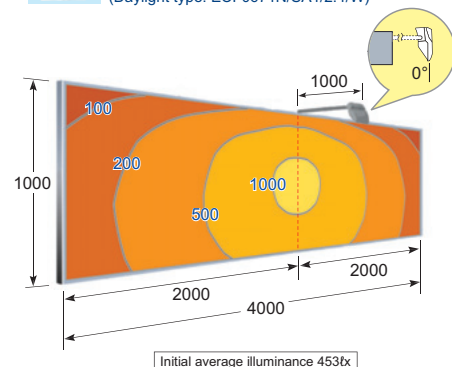
Comparison example



Self ballasted mercury lamp holder
(BHRF100/110V160WH)



LEDiOC FLOOD BROAD
(Daylight type: ECF0671N/SA1/2.4/W)



Self ballasted mercury lamp holder for 160W
160W self ballasted mercury lamp
(BHRF100/110V160WH)

Average illuminance

428lx

LEDiOC FLOOD BROAD
(Daylight type: ECF0671N/SA1/2.4/W)

453lx

Same brightness

Power consumption*1

672W
(168W × 4)

77W
(77W × 1)

An energy saving of roughly 89%

Annual
CO₂ emissions*2

About
1,156kg
of CO₂

**About 132kg
of CO₂**

About a 1,024kg
reduction in CO₂

Lifetime

6,000hours



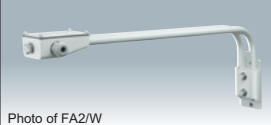
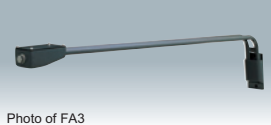









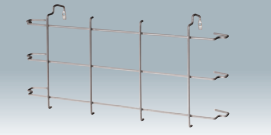

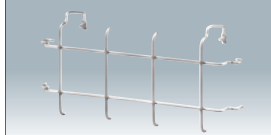

40,000hours

About 6.7 times

*1 Power consumption is calculated by input wattage at rated voltage input.

*2 CO₂ emission volume is calculated based on 0.43kg of CO₂ per kWh.

Options for LEDioc FLOOD series

<p>Arm 95W 24V DC Color</p>  <p>Photo of FA52/DG</p> <p>600mm type FA51/DG (dark gray) FA51/W (white)</p> <p>900mm type FA52/DG (dark gray) FA52/W (white)</p> <p>Pipe: Steel pipe Junction box: Diecast aluminum Weight: 2.1kg (600mm type), 2.4kg (900mm type)</p> <p>* Thread a $\phi 2$ to 3 mm diameter stainless wire through the mounting hole and secure both ends (wire is not provided).</p>  <p>Installation example</p>	<p>Arm 50W 35W Broad</p>  <p>Photo of FA2/W</p> <p>600mm type FA2 (dark gray) FA2/W (white)</p> <p>Junction box: Diecast aluminum Pipe: Steel pipe Weight: 2.0kg</p> <p>Securing the arm to the luminaire: Use the M10 bolt in the front end of the arm. Installable 360° upward and downward</p>	<p>Arm 50W 35W Broad</p>  <p>Photo of FA3</p> <p>900mm type FA3 (dark gray) FA3/W (white)</p> <p>Junction box: Diecast aluminum Pipe: Steel pipe Weight: 2.3kg</p> <p>Securing the arm to the luminaire: Use the M10 bolt in the front end of the arm. Installable 360° upward and downward</p>	<p>Arm 50W 35W Broad</p>  <p>Photo of FA21/DG</p> <p>400mm type FA21/DG (dark gray) FA21/W (white)</p> <p>Pipe: Steel pipe Weight: 1.0kg</p>
<p>Arm 50W 35W Broad</p>  <p>Indoor use</p> <p>600mm type FA18 (dark gray) FA18/W (white)</p> <p>Pipe: Steel pipe Junction box: Diecast aluminum Weight: 1.7kg</p> <p>* For indoor use. They cannot be used outdoors.</p>	<p>Arm 50W 35W Broad</p>  <p>900mm type FA19 (dark gray) FA19/W (white)</p> <p>Pipe: Steel pipe Weight: 3.2kg</p>	<p>Flange 95W 24V DC Color</p>  <p>FA53/DG (dark gray) FA53/W (white)</p> <p>Material: Diecast aluminum Weight: 430g</p>  <p>Installation example</p>	<p>Flange 50W 35W Broad</p>  <p>FA17 (dark gray) FA17/W (white)</p> <p>Material: Diecast aluminum Weight: 350g Installable on both walls and vertical surfaces. The base is water-proof and can also be used on walls outdoors.</p>
<p>Flange 50W 35W Broad</p>  <p>Photo of FA20/DG</p> <p>FA20/DG (dark gray) FA20/W (white)</p> <p>Material: Diecast aluminum Weight: 250g</p>  <p>Installation example</p>	<p>Flange 50W 35W Broad</p>  <p>FA1/DG (dark gray) FA1/W (white)</p> <p>Material: Diecast aluminum Weight: 150g</p>	<p>Guard 95W 24V DC Color</p>  <p>GECF971</p> <p>Material: Stainless Weight: 110g</p>  <p>Installation example</p>	<p>Guard 50W 35W</p>  <p>GECF371</p> <p>Material: Stainless Weight: 100g</p>  <p>Installation example</p>

95WLEDioc FLOOD NEO 95W

50WLEDioc FLOOD NEO 50W





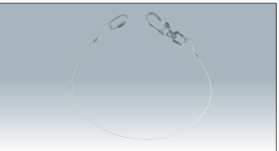
35WLEDioc FLOOD NEO 35W

24V DCLEDioc FLOOD NEO 24V DC

ColorLEDioc FLOOD NEO Color

BroadLEDioc FLOOD Broad

AllAll LEDioc FLOOD series (Except BLITZ)

<p>Mount bracket for trusses All</p>  <p>Photo of FA-30/BK</p> <p>Indoor use</p> <p>FA-30/BK (black) FA-30/SL (silver)</p> <p>Applicable pipe: Round pipe with a diameter of $\phi 30$ to 45mm Square pipe opening: $\square 45$mm Allowable weight: 20kg or less Weight: 600g</p> <p>* A mount bracket for trusses should be used with a bolt for mount bracket.</p>  <p>Installation example</p>	<p>Bolt for mount bracket 95W 24V DC Color</p>  <p>Photo of FA-33/BK</p> <p>Indoor use</p> <p>FA-33/BK (black) FA-33/SL (silver)</p> <p>Allowable weight: 20kg or less Weight: 95g</p> <p>* Use the bolt with the mount bracket for trusses.</p>	<p>Bolt for mount bracket 50W 35W</p>  <p>Photo of FA-31/BK</p> <p>Indoor use</p> <p>FA-31/BK (black) FA-31/SL (silver)</p> <p>Allowable weight: 20kg or less Weight: 95g</p>	<p>Safety wire All</p>  <p>FA-32</p> <p>Safety wire designed to prevent the luminaire from falling. Wrap it around the arm of the luminaire and the rail from which it is hung. Length: 660mm, stainless wire $\phi 1.6$mm Weight: 50g</p> <ul style="list-style-type: none"> * Be sure to install the safety wire to prevent accidents when the luminaire is used in a location where it could cause damage to property or personal injury by falling. * When the luminaire will be suspended from a mount bracket for trusses, use our "trade show grade mount bracket." * These luminaires are not portable and must be installed in a fixed position. * The luminaire must be connected to ground.
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Project reference



Sunshine Aquarium
(LEDioc FLOOD NEO 95W)



Tennis court at Miyashiro Sports Park
(LEDioc FLOOD BLITZ 400W and 200W types)



Tama Funeral Center, Nikka Funeral Hall
(LEDioc FLOOD BLITZ 200W type, LEDioc FLOOD NEO 95W)



Fukuroda Falls
(LEDioc FLOOD NEO COLOR)

LEDiOC HIGH-BAY Λ (Lambda)



Light-weight and compact LED High-bay luminaire that can replace a 400W metal halide lamp.

- The industry's highest level of high efficacy produces substantial electricity savings.
- 60,000-hour LED module life lowers running costs.
- Initial luminous flux correction controls wasted brightness at start of LED life.
- Dimming function for illumination control.
- Weight reduced to 6.5kg thanks to thorough lightweight design.
- Two types of light distribution provided to better accommodate the installation positioning and height and required brightness.
- Safety wire provided as standard for extra safety in the event of an earthquake or other natural disaster.
- The instant-on capability characteristic of LED lights enables flexible lighting control.
- The soft start function prevents the discomfort caused by exposure to sudden bright light.
- Limited ultraviolet light means limited attraction of insects. Less infrared radiation lowers air conditioning load.

Industry's Highest Level of Efficacy

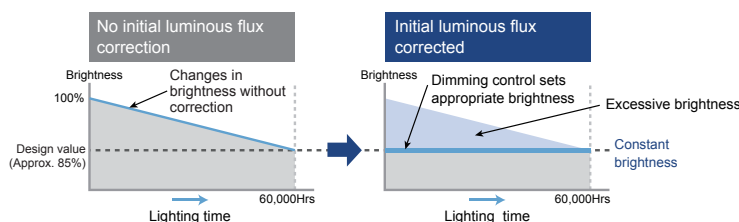
The Lambda luminaire produces a luminous flux (rated) of 24,000lm (wide beam type*) at a power consumption (rated) of 215W. It features the industry's highest luminous efficacy of 111.6lm/W*. It is three times*³ more efficient than high-bay luminaires and 1.5 times more efficient than high-bay metal halide lamps (79.1lm/W).

*1 Medium beam: 23,500lm *2 Medium beam: 109.3lm/W *3 High-bay mercury lamp: 39.5lm/W

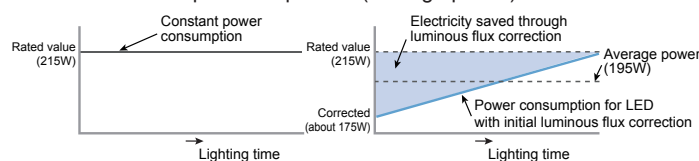
Initial Luminous Flux Correction Controls Wasted Brightness at Start of LED Life

Luminous flux correction is a function that automatically controls the brightness of an LED to ensure that the brightness does not exceed the designed illuminance at the beginning of its life. A timer in the power supply unit keeps track of the total lighting time to maintain a constant level of brightness and reduce power consumption.

• Initial luminous flux correction



• Power consumption comparison (average power)

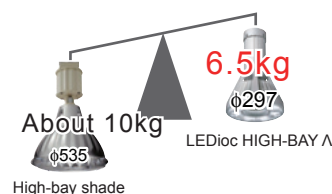


Dimming Function (Signal Control) for Illumination Control

Supports initial luminous flux correction and dimming via external signal (PWM signal). It is also compatible with lighting control systems for even greater power saving.

Weight Reduce to 6.5kg Thanks to our Exacting Lightweight Design

The lamp housing is made of a lightweight magnesium alloy that has a high specific strength (strength/weight ratio). This has made it possible to lower luminaire weight to 6.5kg, which reduces the impact and strain on the building where it is installed. Installation of high-bay luminaires requires work at heights, so the lighter weight makes it easier and safer to install.



Two types of light distribution provided to better accommodate installation location and height and required brightness

The wide beam model enables even illumination of wide areas, thus achieving a well-balanced lighting environment. In facilities with high ceilings or where the priority is on straight-down illumination, the medium beam model is ideal.

Safety wire provided as standard for extra safety in the event of an earthquake or other natural disaster

A safety wire is provided as a standard accessory to prevent it from falling in the rare event that the installation should be damaged in an earthquake or aftershock. This also increases safety during installation and inspections.

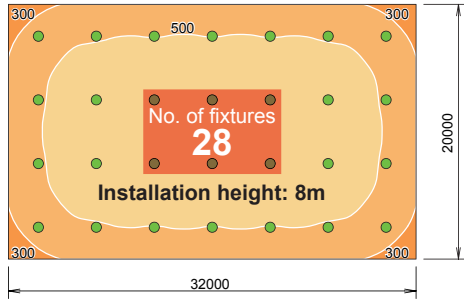
Soft start function prevents discomfort caused by exposure to sudden bright light

LED lighting instantly reaches maximum brightness and this sudden burst of light may be unpleasant to a user. LEDiOC HIGH-BAY Λ (Lambda) comes with a soft start function that prolongs lighting over a 2-second period to reduce discomfort.

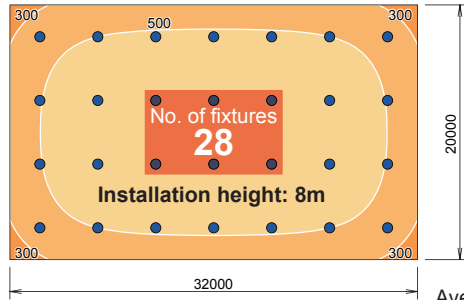
Comparison Example

Comparison with 400W Metal Halide Lamp

Adjacent Ballast/High-bay Shade+400W Metal Halide Lamp
(HB4020A03+SAW415 (wide distribution type) +MF400LSH2/BUP)



LEDioc HIGH-BAY Λ (Lambda)
(EHCL22203DN/SA1/2/2.4)



Adjacent Ballast/High-bay Shade
+400W Metal Halide Lamp
(SAW413)

LEDioc HIGH-BAY Λ (Lambda)
Wide beam
(EHCL22203DN/SA1/2/2.4)

Average Illuminance*1	Power consumption*2	Annual CO ₂ Emissions*3	Lifetime
510lx	11,760W (420W×28)	About 15.2t of CO ₂	12,000hours
529lx	5,460W (195W×28)	About 7.0t of CO ₂	60,000hours
Brightness: Same or better	54% energy savings	About a 8.2t reduction in CO₂	5 times

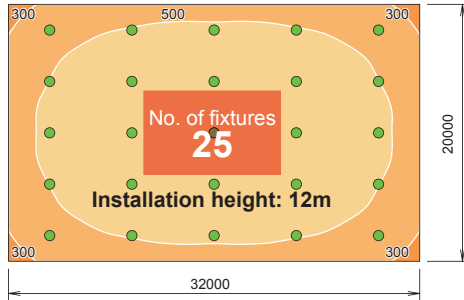
*1 Maintenance factor for metal halide lamp: 0.49; for the LED:0.68

*2 Power consumption is for a 200V metal halide lamp (standard HPF ballast) and the average power consumption value for an LED lamp equipped with initial luminous flux correction.

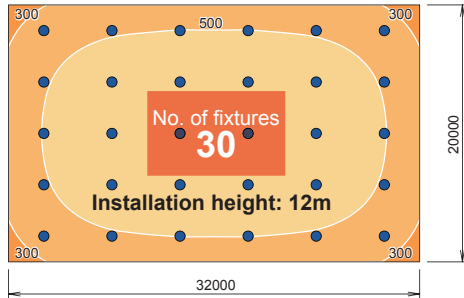
*3 CO₂ emission volume is calculated based on 0.43kg of CO₂ per kWh.

Comparison with 700W Mercury Lamp

Adjacent Ballast/High-bay Shade+700W Mercury Lamp
(HB7020A03+SAW713 (wide distribution type) +HF700X)



LEDioc HIGH-BAY Λ (Lambda)
(EHCL22202DN/SA1/2/2.4)



Adjacent Ballast/High-bay Shade
+700W Mercury Lamp
(SAW713)

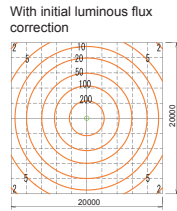
LEDioc HIGH-BAY Λ (Lambda)
Medium Beam
(EHCL22202DN/SA1/2/2.4)

Average Illuminance*1	Power consumption*2	Annual CO ₂ Emissions*3	Lifetime
549lx	18,625W (745W×25)	About 24.0t of CO ₂	12,000hours
521lx	5,850W (195W×30)	About 7.5t of CO ₂	60,000hours
Brightness roughly the same	69% energy savings	About a 16.5t reduction in CO₂	5 times

*1 Maintenance factor for mercury lamp: 0.71; for the LED:0.68

*2 Power consumption is for a 200V metal halide lamp (standard HPF ballast) and the average power consumption value for an LED lamp equipped with initial luminous flux correction.

*3 CO₂ emission volume is calculated based on 0.43kg of CO₂ per kWh.

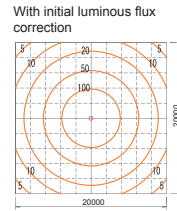
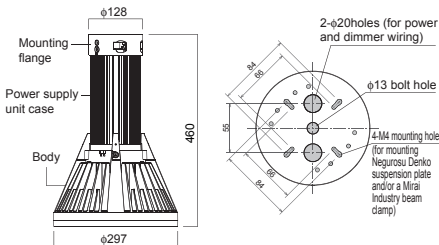
**Medium Beam****EHCL22202DN/SA1/2/2.4**

(100/200 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
23,500lm	215W (100V/200V) 214W (242V)
Luminous Efficacy	
109.3lm/W (100V/200V) 109.8lm/W (242V)	
LED Module Life	Light Color
60,000hours	Equivalent to 5,000K
Color Rendering Index (Ra)	
70	

Specifications**Body:** Magnesium alloy**Power supply unit case:** Extruded aluminum**Globe:** Acrylic**Finish color:** White**Weight:** 6.5kg

Safety wire provided

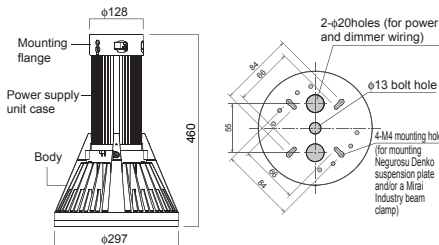
**Wide beam****EHCL22203DN/SA1/2/2.4**

(100/200 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
24,000lm	215W (100V/200V) 214W (242V)
Luminous Efficacy	
111.6lm/W (100V/200V) 112.1lm/W (242V)	
LED Module Life	Light Color
60,000hours	Equivalent to 5,000K
Color Rendering Index (Ra)	
70	

Specifications**Body:** Magnesium alloy**Power supply unit case:** Extruded aluminum**Globe:** Acrylic**Finish color:** White**Weight:** 6.5kg

Safety wire provided



* Cool white (equivalent to 4,000K), warm white (equivalent to 3,000K) can be special ordered.

Cool white: EHCL22202DW/SA1/2/2.4

Warm white: EHCL22202DLW/SA1/2/2.4

Cool white: EHCL22203DW/SA1/2/2.4

Warm white: EHCL22203DLW/SA1/2/2.4

Overall guard**TGHCL221****Specifications****Body:** Low carbon steel wire rods**Mounting plate:** Steel**Weight:** 5.6kg**Front guard****GEHCL221****Specifications****Body:** Low carbon steel wire rods**Weight:** 0.7kg**Front diffuse cover****PEHCL221****Specifications****Body:** Low carbon steel wire rods**Panel:** Polycarbonate**Weight:** 0.9kg**Manual dimmer**

ITACS-self Manual Dimmer

I.DF-70162-PD

<100 to 242V>

* In combination with a LEDiOC High-bay Lambda, capable of continuous, no-step dimming from 100% down to 15%.

* Maximum number of dimmable units: 50
(If power is turned ON/OFF with a manual dimmer switch, the maximum is 6 lights.)

* Rated capacity of switch: 15A

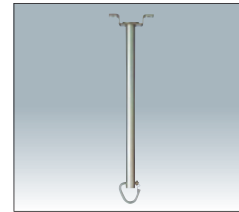


Eyebolt

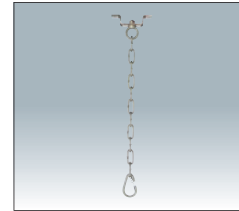
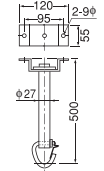
HB-I-BOLT/M10

High-bay shade

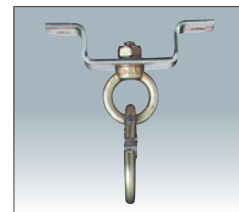
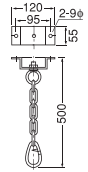
Required with FB11, 21, 31 pipe pendants.

Material: Steel
With M10 nut

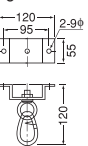
Pipe pendant

FB11**Finish:** Electro-galvanizing**Weight:** 1.1kg

Chain pendant

FB21**Finish:** Electro-galvanizing**Weight:** 700g

Hook pendant

FB31**Finish:** Electro-galvanizing**Weight:** 450g

* The horizontal plane illumination distribution diagram above indicates initial values (unit: lx).

LEDiOC CEILING HB

High-output type



Higher brightness than a 400W metal halide lamp
Output power: 20,000lm

Combining LED features with high quality light distribution control has allowed us to manufacture high-bay luminaires with a high efficacy of 105lm/W.

Two configurations offered in three types of beam distribution make it easy to find a model that suits your application.



For details on area light types, see page 37.

High efficacy of 105lm/W (Daylight type)

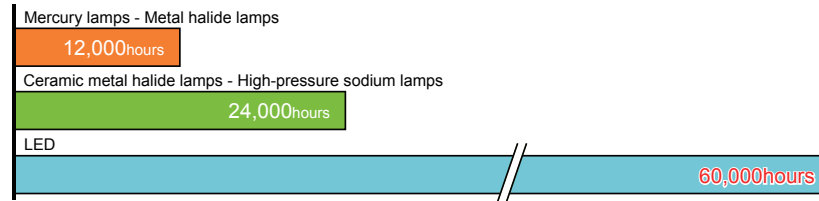
The rated luminous flux (luminaire luminous flux) is 20,000lm and as an LED luminaire it possesses a luminous efficacy of 105lm, the highest in the industry.

Weather-proof Type Suitable for Direct Contact with Rain

The weather-proof design of the high-bay fixture allows them to be used in direct contact with rain. This makes them particularly well-suited as an energy saving measure for gas stations or large-scale warehouses with a lot of frontage, or for factories or the entrances (eaves) of big-box stores.

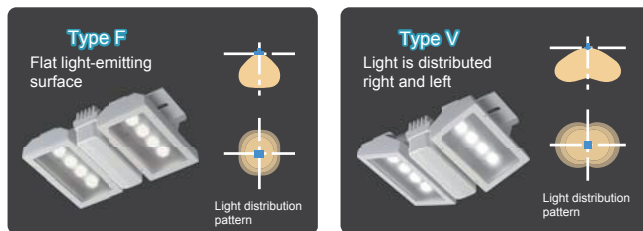
Long life of 60,000hours

The LEDiOC CEILING light provides a LED module life of 60,000hours*. It boasts a life that is more than 2.5 times that of an HID lamp, which contributes to substantial cost savings. *Characteristics at an ambient temperature of 25°C.



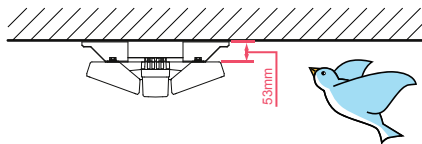
Extensive product lineup

The LEDiOC CEILING Type F has a flat light-emitting surface that suppresses light pollution, while the Type V distributes light more widely to the right and left. Each comes in a lineup that features narrow, medium and wide beam distribution models. This allows you to select the model that best suits your needs.



Bird dropping control

The clearance between the ceiling and the luminaire is a mere 53mm. The close fit between the ceiling and the luminaire prevents accumulation of droppings from birds and other small animals.



Low insect attraction

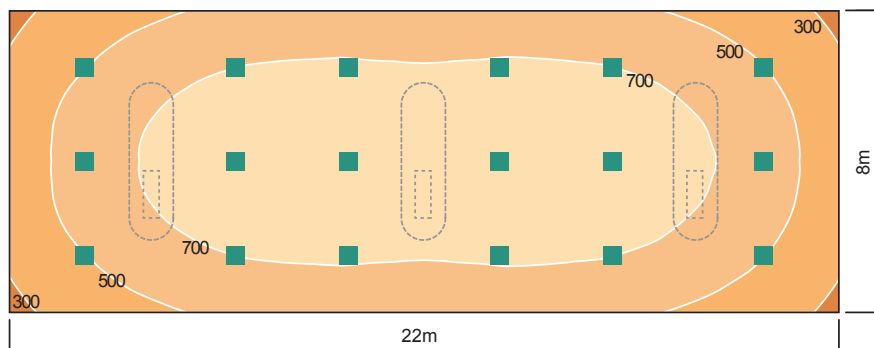
The LED emits hardly any light in the ultraviolet range that insects like and therefore attracts fewer insects.

Design example: Undercanopy lighting



400W metal halide lamp luminaire for gas stations

(HSTD402)
400W metal halide lamp
(MT400LSH/BH)



Design conditions

Height of luminaire: 5.0m
Fixtures installed: 18
Maintenance ratio: 0.47

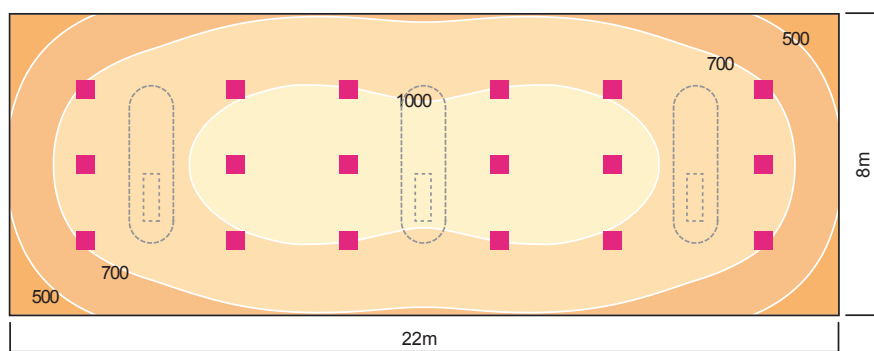
Average illuminance: **641lx**



LEDioc CEILING HB High-output Type V Wide beam

(EHCL19723N/SA1/2.4)

About 1.3 times
as bright



Design conditions

Height of luminaire: 5.0m
Fixtures installed: 18
Maintenance ratio: 0.77

Average illuminance: **828lx**

* The numbers on the curves indicate illuminance maintenance values of irradiation areas in lx units.

Comparison example

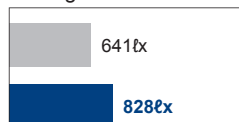
400W metal halide lamp luminaire for gas stations

(HSTD402)
400W metal halide lamp
(MT400LSH/BH)

LEDioc CEILING HB High-output Type V Wide beam

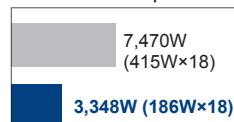
(EHCL19723N/SA1/2.4)

Average illuminance



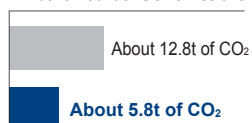
About 1.3 times
as bright

Power consumption^{*1}



An energy saving of
roughly 55%

Annual amount of CO₂ emissions^{*2}



About a 7t
reduction in CO₂

Lifetime



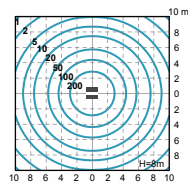
5 times

^{*1} Indicates power consumption when used with a 200V power supply.

^{*2} CO₂ emission volume is calculated based on 0.43kg of CO₂ per kWh.

Type F High-output

Narrow beam



Weather-proof

EHCL19711N/SA1/2.4

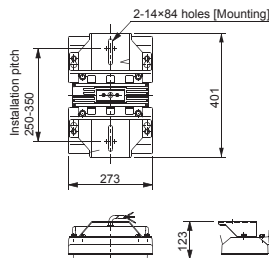
(Luminaire: EHCL19711N/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power consumption	
20,000lm		190W (100V) 186W (200V) 185W (240V)	
Luminous efficacy			
105.3lm/W (100V) 107.5lm/W (200V) 108.1lm/W (240V)			
LED module life	Light color	Color rendering index (Ra)	
60,000hours	Equivalent to 5,000K (Daylight)	70	

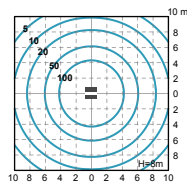
Specifications

Body: Diecast aluminum
Frame: Diecast aluminum
Front glass: Embossed glass
Bracket: Stainless
Finish color: White
Weight: 10.7kg

* Above characteristics are available at an ambient temperature of +25°C.



Medium beam



Weather-proof

EHCL19712N/SA1/2.4

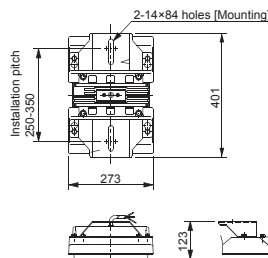
(Luminaire: EHCL19712N/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power consumption	
20,000lm		190W (100V) 186W (200V) 185W (240V)	
Luminous efficacy			
105.3lm/W (100V) 107.5lm/W (200V) 108.1lm/W (240V)			
LED module life	Light color	Color rendering index (Ra)	
60,000hours	Equivalent to 5,000K (Daylight)	70	

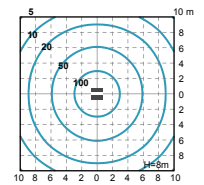
Specifications

Body: Diecast aluminum
Frame: Diecast aluminum
Front glass: Embossed glass
Bracket: Stainless
Finish color: White
Weight: 10.7kg

* Above characteristics are available at an ambient temperature of +25°C.



Wide beam



Weather-proof

EHCL19713N/SA1/2.4

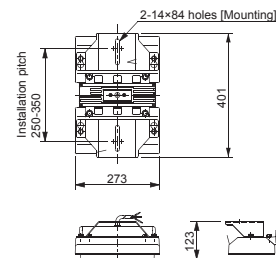
(Luminaire: EHCL19713N/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power consumption	
20,000lm		190W (100V) 186W (200V) 185W (240V)	
Luminous efficacy			
105.3lm/W (100V) 107.5lm/W (200V) 108.1lm/W (240V)			
LED module life	Light color	Color rendering index (Ra)	
60,000hours	Equivalent to 5,000K (Daylight)	70	

Specifications

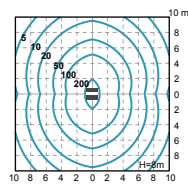
Body: Diecast aluminum
Frame: Diecast aluminum
Front glass: Embossed glass
Bracket: Stainless
Finish color: White
Weight: 10.7kg

* Above characteristics are available at an ambient temperature of +25°C.



Type V High-output

Narrow beam



Weather-proof

EHCL19721N/SA1/2.4

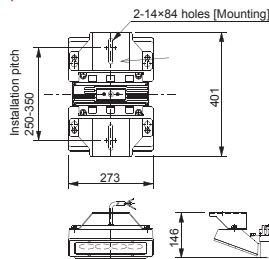
(Luminaire: EHCL19721N/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power consumption	
20,000lm		190W (100V) 186W (200V) 185W (240V)	
Luminous efficacy			
105.3lm/W (100V) 107.5lm/W (200V) 108.1lm/W (240V)			
LED module life	Light color	Color rendering index (Ra)	
60,000hours	Equivalent to 5,000K (Daylight)	70	

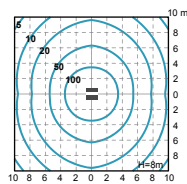
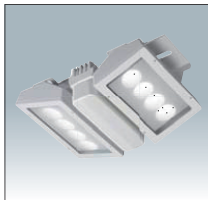
Specifications

Body: Diecast aluminum
Frame: Diecast aluminum
Front glass: Embossed glass
Bracket: Stainless
Finish color: White
Weight: 10.7kg

* Above characteristics are available at an ambient temperature of +25°C.



Medium beam



Weather-proof

EHCL19722N/SA1/2.4

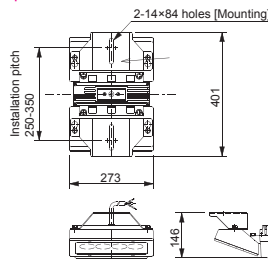
(Luminaire: EHCL19722N/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power consumption	
20,000lm		190W (100V) 186W (200V) 185W (240V)	
Luminous efficacy			
105.3lm/W (100V) 107.5lm/W (200V) 108.1lm/W (240V)			
LED module life		Color rendering index (Ra)	
60,000hours		70	

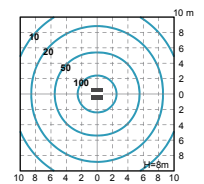
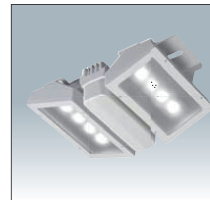
Specifications

Body: Diecast aluminum
Frame: Diecast aluminum
Front glass: Embossed glass
Bracket: Stainless
Finish color: White
Weight: 10.7kg

* Above characteristics are available at an ambient temperature of +25°C.



Wide beam



Weather-proof

EHCL19723N/SA1/2.4

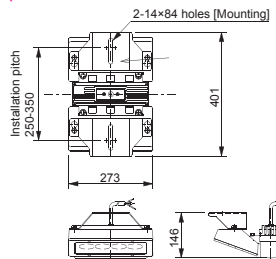
(Luminaire: EHCL19723N/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power consumption	
20,000lm		190W (100V) 186W (200V) 185W (240V)	
Luminous efficacy			
105.3lm/W (100V) 107.5lm/W (200V) 108.1lm/W (240V)			
LED module life	Light color	Color rendering index (Ra)	
60,000hours	Equivalent to 5,000K (Daylight)	70	

Specifications

Body: Diecast aluminum
Frame: Diecast aluminum
Front glass: Embossed glass
Bracket: Stainless
Finish color: White
Weight: 10.7kg

* Above characteristics are available at an ambient temperature of +25°C.



* Above illuminance indicates initial values (unit: lx).



Type F



Type V

LEDiOC CEILING HB Standard and Dimmable types

Approximately 57% energy savings over a 400W metal halide lamp or 400W mercury lamp.

- Type F that ensures illumination below the luminaire and Type V that lights up a large area.
- Maintains the same brightness as 400W metal halide or mercury lamps.

High-power, 2× LEDioc FLOOD NEOs 95W

High-power LEDs (Daylight: 16,800lm and warm white: 11,940lm: Our LEDs with their outstanding luminous flux) achieve a maximum luminaire luminous flux of 13,800lm (Type V, wide-beam, daylight), making for a practical, high-bay LED luminaire.

Extensive Product Lineup

Our lineup includes narrow, medium and wide beam types for both the Type F, which cuts down on light pollution and the Type V, which illuminates a large area. You can choose the light color to suit your application from a daylight type (equivalent to 5,000K) or a warm white (equivalent to 3,000K).

Perfect for Lighting Renovations

With the installation pitch (300mm) of existing Service station luminaires (Iwasaki) in mind, we designed our ceiling mounting hardware to work over a wide range, from 250mm to 350mm.

Suppresses Bird Droppings at Service Stations

The clearance between the ceiling and the luminaire is a mere 53mm. The close fit between the ceiling and the luminaire prevents accumulation of droppings from birds and other small animals.

For LEDioc CEILING HB Initial luminous flux correction unit

When a timer unit is connected, which automatically dims the light in line with LED luminaire lumen maintenance, it dims it to the designed luminous flux when newly installed (approx. 70% of initial luminous flux), thus realizing energy savings. Also, since this reduces the load on the LED and power supply unit, the service life of LEDiocCeilingHB is extended to up to 60,000hours (standard 40,000hours).



For LEDioc CEILING HB
Initial luminous flux correction unit
ILSDM02A-HB

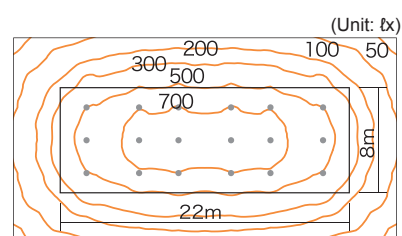
- By connecting the applicable unit to a power supply synchronized with the LEDioc CEILING HB, it automatically counts the time in use and controls the dimming ratio based on the cumulative time, dimming the luminaire accordingly.
- A maximum of 24 LEDioc CEILING HB luminaires can be connected per compatible unit.
- The maximum wire length of 200m can broaden the options for installation locations. (Signal wire: when used, CPEVφ0.9)
- Complies to IP65 for excellent waterproof performance.
- Any position--unrestricted installation orientation.
- Power consumption of 3W makes for a true low-power control unit.

Comparison Example

•Design example: Service station illumination (under canopy)



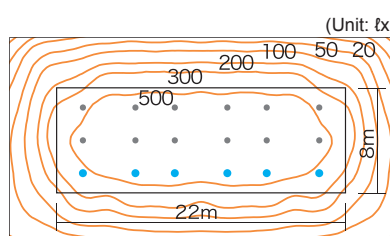
**Service station luminaire
for metal halide lamps**
(HSD478+MT400LSH/BH)



Design conditions:
Installation Height: 5.0m Maintenance factor: 0.5
Installed Quantity: 18



LEDioc CEILING HB
(EHCL18713N/SA1/2.4
+EHCL18723N/SA1/2.4)

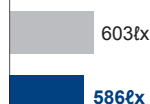


Design conditions:
Installation Height: 5.0m Maintenance factor: 0.63
Installed Quantity: 18
• EHCL18713N/SA1/2.4
• EHCL18723N/SA1/2.4

**Service station luminaire
for metal halide lamps**
(HSD478+MT400LSH/BH)

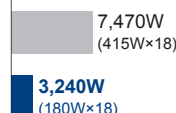
LEDioc CEILING HB
(EHCL18713N/SA1/2.4
+EHCL18723N/SA1/2.4)

Average illuminance
(under canopy)



Same brightness

Power consumption*1



An energy saving of roughly 57%

Annual CO₂ Emissions*2

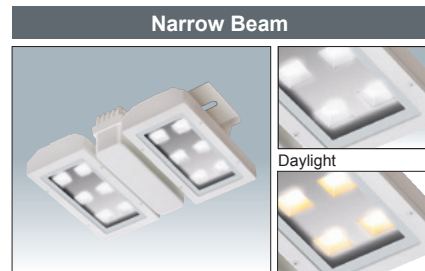


About 7.2t reduction of CO₂

*1 Power consumption based on input voltages, mercury lamp: 200V (standard HPF ballast), metal halide lamp: 200V (standard HPF ballast) LED: 200V.

*2 CO₂ emission volume is calculated based on 0.43kg of CO₂ per kWh.

Type F Standard



Narrow Beam

Weather-proof

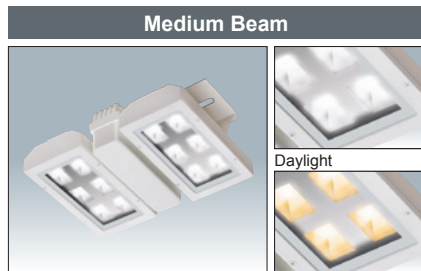
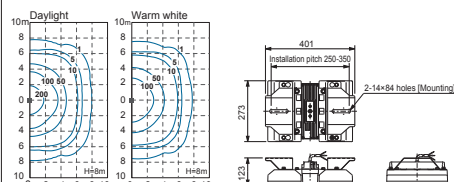
EHCL18711N/SA1/2.4 (Daylight)
(Body: EHCL18711N/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

EHCL18711LW/SA1/2.4 (Warm white)
(Body: EHCL18711LW/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	
10,900lm (Daylight), 7,750lm (Warm white)	
Power Consumption	Luminous Efficacy
180W	60.6lm/W (Daylight), 43.1lm/W (Warm white)
LED Module Life	Light Color
40,000hours	Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)
Color Rendering Index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications

Body: Diecast aluminum **Finish color:** White
Front glass: Tempered glass **Weight:** 10.7kg
Mounting plate: Stainless



Medium Beam

Weather-proof

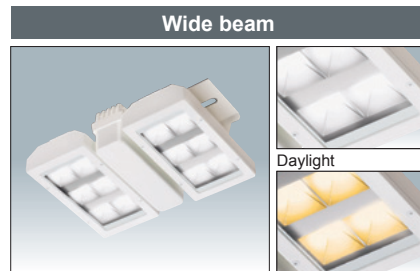
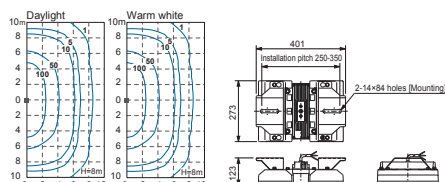
EHCL18712N/SA1/2.4 (Daylight)
(Body: EHCL18712N/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

EHCL18712LW/SA1/2.4 (Warm white)
(Body: EHCL18712LW/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	
12,300lm (Daylight), 8,740lm (Warm white)	
Power Consumption	Luminous Efficacy
180W	68.3lm/W (Daylight), 48.6lm/W (Warm white)
LED Module Life	Light Color
40,000hours	Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)
Color Rendering Index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications

Body: Diecast aluminum **Finish color:** White
Front glass: Tempered glass **Weight:** 10.7kg
Mounting plate: Stainless



Wide beam

Weather-proof

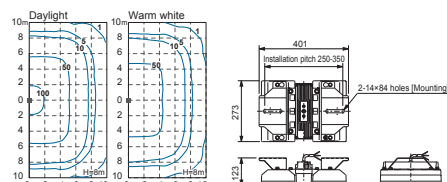
EHCL18713N/SA1/2.4 (Daylight)
(Body: EHCL18713N/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

EHCL18713LW/SA1/2.4 (Warm white)
(Body: EHCL18713LW/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

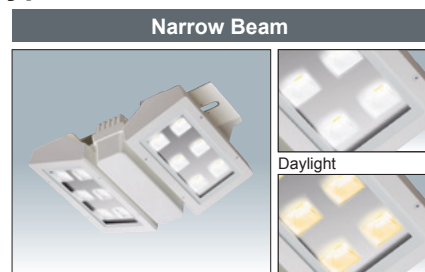
Rated luminous flux (luminaire luminous flux)	
13,600lm (Daylight), 9,660lm (Warm white)	
Power Consumption	Luminous Efficacy
180W	75.6lm/W (Daylight), 53.7lm/W (Warm white)
LED Module Life	Light Color
40,000hours	Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)
Color Rendering Index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications

Body: Diecast aluminum **Finish color:** White
Front glass: Tempered glass **Weight:** 10.7kg
Mounting plate: Stainless



Type V Standard



Narrow Beam

Weather-proof

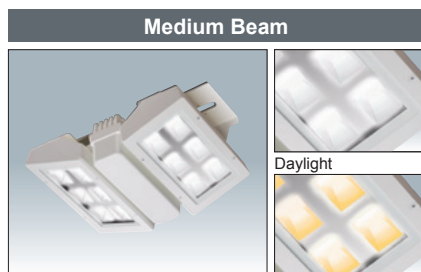
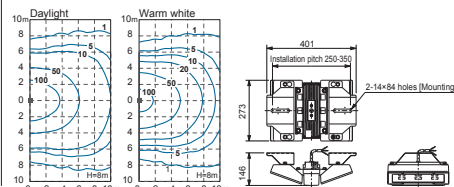
EHCL18721N/SA1/2.4 (Daylight)
(Body: EHCL18721N/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

EHCL18721LW/SA1/2.4 (Warm white)
(Body: EHCL18721LW/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	
11,930lm (Daylight), 8,470lm (Warm white)	
Power Consumption	Luminous Efficacy
180W	66.3lm/W (Daylight), 47.1lm/W (Warm white)
LED Module Life	Light Color
40,000hours	Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)
Color Rendering Index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications

Body: Diecast aluminum **Finish color:** White
Front glass: Tempered glass **Weight:** 10.7kg
Mounting plate: Stainless



Medium Beam

Weather-proof

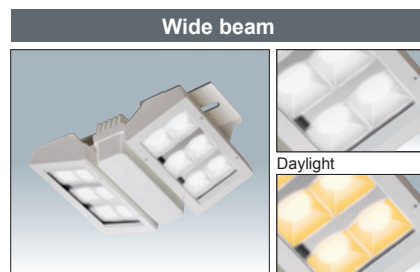
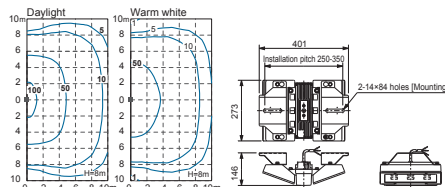
EHCL18722N/SA1/2.4 (Daylight)
(Body: EHCL18722N/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

EHCL18722LW/SA1/2.4 (Warm white)
(Body: EHCL18722LW/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	
13,320lm (Daylight), 9,460lm (Warm white)	
Power Consumption	Luminous Efficacy
180W	74.0lm/W (Daylight), 52.6lm/W (Warm white)
LED Module Life	Light Color
40,000hours	Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)
Color Rendering Index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications

Body: Diecast aluminum **Finish color:** White
Front glass: Tempered glass **Weight:** 10.7kg
Mounting plate: Stainless



Wide beam

Weather-proof

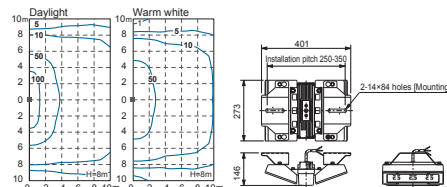
EHCL18723N/SA1/2.4 (Daylight)
(Body: EHCL18723N/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

EHCL18723LW/SA1/2.4 (Warm white)
(Body: EHCL18723LW/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	
13,800lm (Daylight), 9,800lm (Warm white)	
Power Consumption	Luminous Efficacy
180W	76.7lm/W (Daylight), 54.4lm/W (Warm white)
LED Module Life	Light Color
40,000hours	Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)
Color Rendering Index (Ra)	
68 (Daylight) 80 (Warm white)	

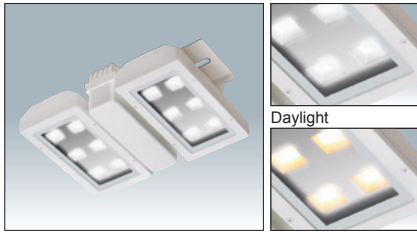
Specifications

Body: Diecast aluminum **Finish color:** White
Front glass: Tempered glass **Weight:** 10.7kg
Mounting plate: Stainless



Type F Dimmable

Narrow Beam



Weather-proof

EHCL18711DN/SA1/2.4 (Daylight)

(Body: EHCL18711DN/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

EHCL18711DLW/SA1/2.4 (Warm white)

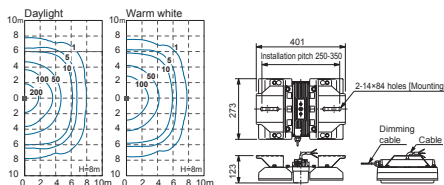
(Body: EHCL18711DLW/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	
10,900lm (Daylight), 7,750lm (Warm white)	
Power Consumption	Luminous Efficacy
180W	60.6lm/W (Daylight), 43.1lm/W (Warm white)
LED Module Life	Light Color
40,000hours	Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)
Color Rendering Index (Ra)	
68 (Daylight) 80 (Warm white)	

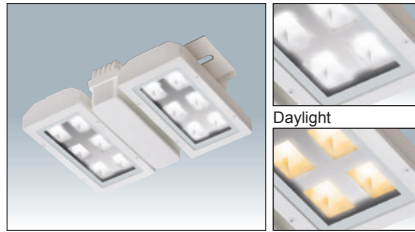
Specifications

Body: Diecast aluminum
Front glass: Tempered glass
Mounting plate: Stainless

Finish color: White
Weight: 10.7kg



Medium Beam



Weather-proof

EHCL18712DN/SA1/2.4 (Daylight)

(Body: EHCL18712DN/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

EHCL18712DLW/SA1/2.4 (Warm white)

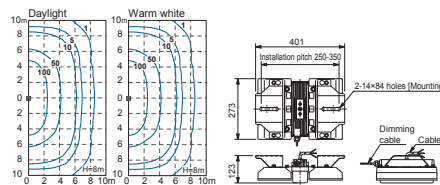
(Body: EHCL18712DLW/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	
12,300lm (Daylight), 8,740lm (Warm white)	
Power Consumption	Luminous Efficacy
180W	68.3lm/W (Daylight), 48.6lm/W (Warm white)
LED Module Life	Light Color
40,000hours	Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)
Color Rendering Index (Ra)	
68 (Daylight) 80 (Warm white)	

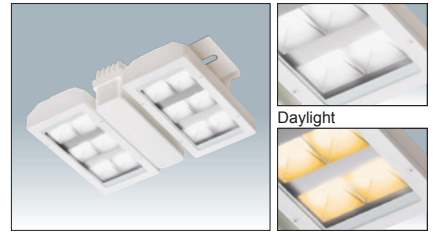
Specifications

Body: Diecast aluminum
Front glass: Tempered glass
Mounting plate: Stainless

Finish color: White
Weight: 10.7kg



Wide beam



Weather-proof

EHCL18713DN/SA1/2.4 (Daylight)

(Body: EHCL18713DN/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

EHCL18713DLW/SA1/2.4 (Warm white)

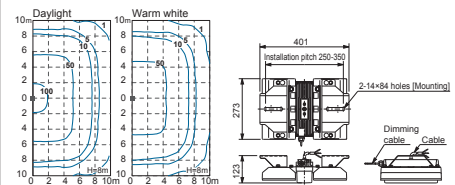
(Body: EHCL18713DLW/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	
13,600lm (Daylight), 9,660lm (Warm white)	
Power Consumption	Luminous Efficacy
180W	75.6lm/W (Daylight), 53.7lm/W (Warm white)
LED Module Life	Light Color
40,000hours	Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)
Color Rendering Index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications

Body: Diecast aluminum
Front glass: Tempered glass
Mounting plate: Stainless

Finish color: White
Weight: 10.7kg



Type V Dimmable

Narrow Beam



Weather-proof

EHCL18721DN/SA1/2.4 (Daylight)

(Body: EHCL18721DN/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

EHCL18721DLW/SA1/2.4 (Warm white)

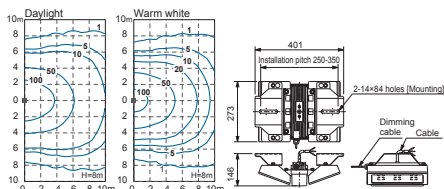
(Body: EHCL18721DLW/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	
11,930lm (Daylight), 8,470lm (Warm white)	
Power Consumption	Luminous Efficacy
180W	66.3lm/W (Daylight), 47.1lm/W (Warm white)
LED Module Life	Light Color
40,000hours	Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)
Color Rendering Index (Ra)	
68 (Daylight) 80 (Warm white)	

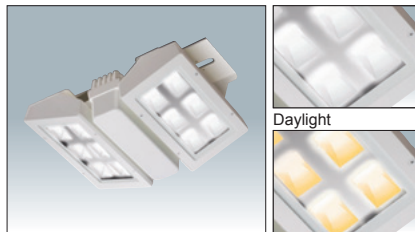
Specifications

Body: Diecast aluminum
Front glass: Tempered glass
Mounting plate: Stainless

Finish color: White
Weight: 10.7kg



Medium Beam



Weather-proof

EHCL18722DN/SA1/2.4 (Daylight)

(Body: EHCL18722DN/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

EHCL18722DLW/SA1/2.4 (Warm white)

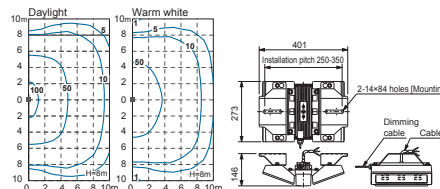
(Body: EHCL18722DLW/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	
13,320lm (Daylight), 9,460lm (Warm white)	
Power Consumption	Luminous Efficacy
180W	74.0lm/W (Daylight), 52.6lm/W (Warm white)
LED Module Life	Light Color
40,000hours	Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)
Color Rendering Index (Ra)	
68 (Daylight) 80 (Warm white)	

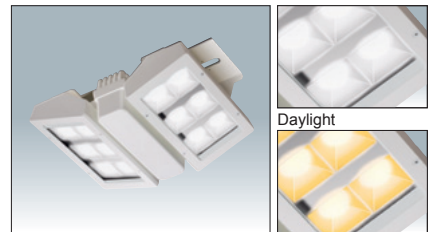
Specifications

Body: Diecast aluminum
Front glass: Tempered glass
Mounting plate: Stainless

Finish color: White
Weight: 10.7kg



Wide beam



Weather-proof

EHCL18723DN/SA1/2.4 (Daylight)

(Body: EHCL18723DN/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

EHCL18723DLW/SA1/2.4 (Warm white)

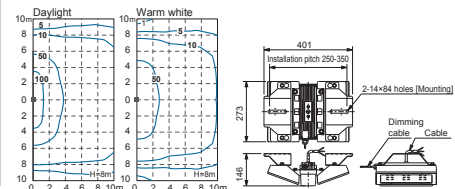
(Body: EHCL18723DLW/SA1/2.4-0 + bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	
13,800lm (Daylight), 9,800lm (Warm white)	
Power Consumption	Luminous Efficacy
180W	76.7lm/W (Daylight), 54.4lm/W (Warm white)
LED Module Life	Light Color
40,000hours	Equivalent to 5,000K (Daylight), equivalent to 3,000K (Warm white)
Color Rendering Index (Ra)	
68 (Daylight) 80 (Warm white)	

Specifications

Body: Diecast aluminum
Front glass: Tempered glass
Mounting plate: Stainless

Finish color: White
Weight: 10.7kg



* The horizontal plane illumination distribution diagram above indicates initial values (unit: lx).

* The LED module life of 60,000hours indicated applies when used in combination with an initial luminous flux correction unit (ILSDM02A-HB).



Inaba Denki Sangyo (KK) Fukuoka Plant
(LEDioc HIGH-BAY Λ)



Tokyo Engineering Systems (Co.) Hanyu Factory
(LEDioc HIGH-BAY Λ)



Oberlin University
(LEDioc HIGH-BAY Λ)



Matsubushi Kanasugi Elementary School
(LEDioc CEILING HB High-output)



Otaki Nishihata Elementary School
(LEDioc CEILING HB Dimmable)



Asano Gear Co. Factory
(LEDioc CEILING HB)



Komatsu Ibaraki Plant
(LEDioc CEILING HB)



ENEOS Dr. Drive New Town East Station
(LEDioc CEILING HB)



Otoy Gas Station
(LEDioc CEILING HB)



Kanazawa Sekiyu Co. Nogata South Self-service Station
(LEDioc CEILING HB)



Mago Sports Hall
(LEDioc CEILING HB)



Accordia Garden Kashiwara
(LEDioc CEILING HB)

LED Light Bulb

Street Lighting

Park and Landscape
Luminaires

Landscape Luminaires

Floodlights

High-bay Luminaires

Downlights

Universal Downlights

Special Luminaires for
Industrial Applications

LEDiOC LED Downlights



Class 900 (Daylight type)



Class 900 (Warm white type)

Extensive variety

A wide variety, from the equivalent of a 150W compact metal halide lamp to that of a 60W incandescent.

New high-bay ($\phi 250/200$) lineup

A new lineup of large-diameter recessed luminaires ($\phi 250/200$) for high-bay installations.

A three light-color lineup

In addition to refreshing daylight and warm white bulbs, the lineup includes a natural white light in the white type.

Light color

Equivalent to 5,000K (Daylight)



Equivalent to 3,400K (White)



Equivalent to 2,900K (Warm white)



Long Life

LED modules have a long service life of 60,000hours (maximum length). This substantially cuts maintenance costs.

Equipped with a soft start function

Equipped with a soft start function, which reduces the sudden, dazzling change in brightness when lights are turned on. (Not available for some)

■ Comparison when replacing a conventional light source (HID compact type fluorescent lamp) to LED downlights.

Comparison per light <Class 900>

	HDW150W01BHE (MT150SW)	EDL127000DN/SA9 (Class 900)
Luminaire luminous flux	8,760lm	About the same 8,640lm
Power Consumption	171W	About 26.3% decrease 127W
Luminous Efficacy	69.8lm/W	About the same 68.0lm/W
Lifetime	90,000Hrs	About 5.5 times 90,000Hrs

Comparison per light <Class 200>

	FHDW42W01ERFH9 (FHT42W)	EDL24202N/SA9 (Class 200)
Luminaire luminous flux	2,020lm	About 0.95 times 1,910lm
Power Consumption	45W	About 46.3% decrease 24.2W
Luminous Efficacy	43.2lm/W	About 1.8 times 78.9lm/W
Lifetime	10,000 Hrs	About 6 times 60,000Hrs

Comparison per light <Class 700>

	HDW3001/W (MT100SW)	EDL89000N/SA9 (Class 700)
Luminaire luminous flux	4,900lm	About 1.4 times 6,940lm
Power Consumption	112W	About 20.5% decrease 89W
Luminous Efficacy	43.8lm/W	About 1.8 times 78.0lm/W
Lifetime	6,000Hrs	About 8.3 times 50,000Hrs

Comparison per light <Class 150>

	FHDW42W01ERFH9 (FHT32W)	EDL19602N/SA9 (Class 150)
Luminaire luminous flux	1,600lm	About the same 1,570lm
Power Consumption	33W	About 40.6% decrease 19.6W
Luminous Efficacy	48.5lm/W	About 1.7 times 80.1lm/W
Lifetime	10,000Hrs	About 6 times 60,000Hrs

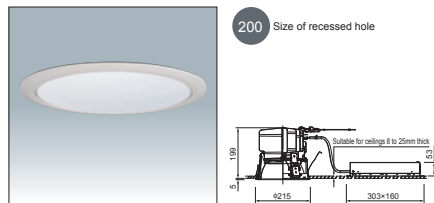
Comparison per light <Class 500>

	HDW3001/W (MT70SW)	EDL71000N/SA9 (Class 500)
Luminaire luminous flux	3,500lm	About 1.6 times 5,460lm
Power Consumption	81W	About 12.3% decrease 71W
Luminous Efficacy	43.2lm/W	About 1.8 times 76.9lm/W
Lifetime	6,000Hrs	About 8.3 times 50,000Hrs

Comparison per light <Class 100>

	FHDW2402ERH9 (FHT24W)	EDL13302N/SA9 (Class 100)
Luminaire luminous flux	1,170lm	About 0.8 times 1,060lm
Power Consumption	27W	About 50% decrease 13.3W
Luminous Efficacy	43.3lm/W	About 1.8 times 79.7lm/W
Lifetime	10,000Hrs	About 6 times 60,000Hrs

Class 900 (Equivalent to 150W compact metal halide lamp)*2



Continuous dimmable type (5 to 100%)

EDL127000DN/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
8,640lm	127W to 124W
Luminous Efficacy	LED Module Life
68.0lm/W to 69.7lm/W	50,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 5,000K (Daylight)	70

Specifications

Body: Diecast aluminum

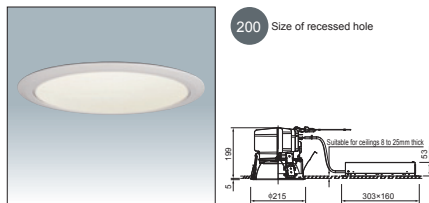
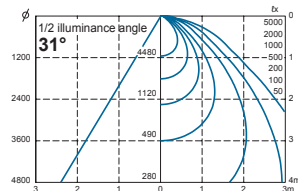
Frame: Steel plate

Bottom cover: Acrylic (diffuse)

Finish color: White

Weight: 4.8kg

* Non heat insulating construction.



Continuous dimmable type (5 to 100%)

EDL127000DWW/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
5,340lm	127W to 124W
Luminous Efficacy	LED Module Life
42.0lm/W to 43.1lm/W	50,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 3,400K (White)	90

Specifications

Body: Diecast aluminum

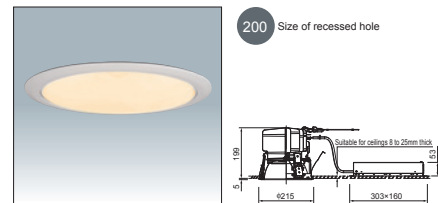
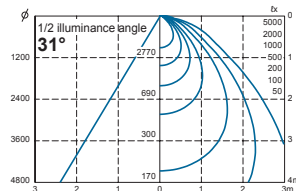
Frame: Steel plate

Bottom cover: Acrylic (diffuse)

Finish color: White

Weight: 4.8kg

* Non heat insulating construction.



Continuous dimmable type (5 to 100%)

EDL127000DL/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
5,040lm	127W to 124W
Luminous Efficacy	LED Module Life
39.7lm/W to 40.6lm/W	50,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 2,900K (Warm white)	90

Specifications

Body: Diecast aluminum

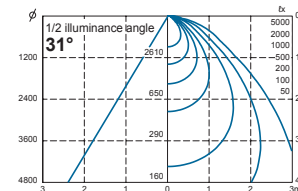
Frame: Steel plate

Bottom cover: Acrylic (diffuse)

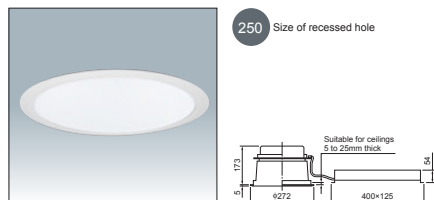
Finish color: White

Weight: 4.8kg

* Non heat insulating construction.



Class 700 (Equivalent to 100W compact metal halide lamp)*2



Standard

EDL89000N/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
6,940lm	89W to 87W
Luminous Efficacy	LED Module Life
78.0lm/W to 79.8lm/W	50,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 5,000K (Daylight)	70

Specifications

Body: Aluminum

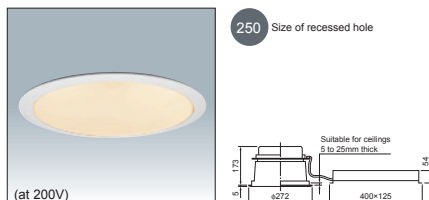
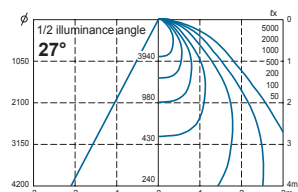
Frame: Steel plate

Bottom cover: Acrylic (clear)

Finish color: White

Weight: 4.5kg

* Non heat insulating construction.



Standard

EDL89000L/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
5,320lm	89W to 87W
Luminous Efficacy	LED Module Life
59.8lm/W to 61.6lm/W	50,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 3,000K (Warm white)	70

Specifications

Body: Aluminum

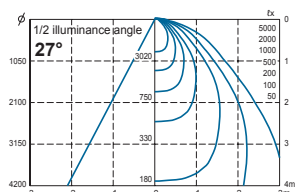
Frame: Steel plate

Bottom cover: Acrylic (clear)

Finish color: White

Weight: 4.5kg

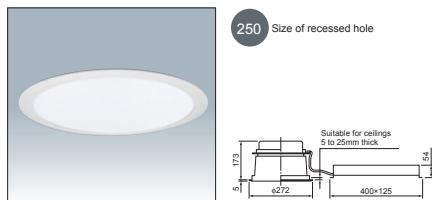
* Non heat insulating construction.



*1 Foregoing illuminance diagram indicates initial values (unit: lx).

*2 Indicates light sources whose brightness is equivalent when compared to the horizontal illuminance (initial) of high-output, daylight types.

Class 500 (Equivalent to 70W compact metal halide lamp)*2



Standard

EDL71000N/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
5,460lm	71.0W to 69.0W
Luminous Efficacy	LED Module Life
76.9lm/W to 79.1lm/W	50,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 5,000K (Daylight)	70

Specifications

Body: Aluminum

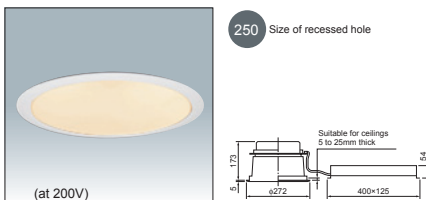
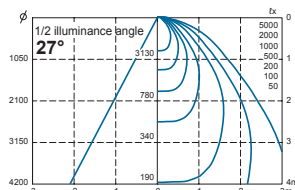
Frame: Steel plate

Bottom cover: Acrylic (clear)

Finish color: White

Weight: 4.5kg

* Non heat insulating construction.



Standard

EDL71000L/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
4,200lm	71.0W to 69.0W
Luminous Efficacy	LED Module Life
59.2lm/W to 60.9lm/W	50,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 3,000K (Warm white)	70

Specifications

Body: Aluminum

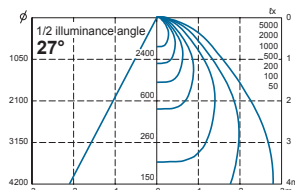
Frame: Steel plate

Bottom cover: Acrylic (clear)

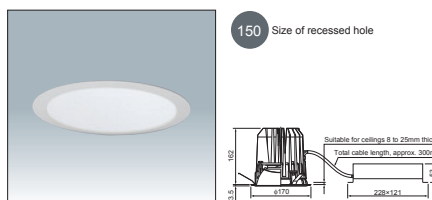
Finish color: White

Weight: 4.5kg

* Non heat insulating construction.



Class 500 (Equivalent to 70W compact metal halide lamp)*2



Continuous dimmable type (5 to 100%)

EDL69600DN/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
5,200lm	69.6W to 66.7W
Luminous Efficacy	LED Module Life
74.7lm/W to 78.0lm/W	60,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 5,000K (Daylight)	70

Specifications

Body: Diecast aluminum

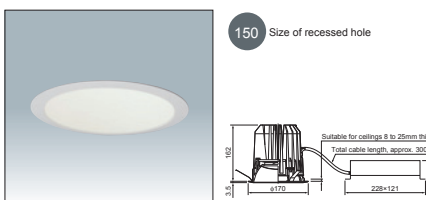
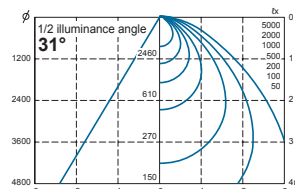
Frame: Plastic

Bottom cover: Acrylic (diffuse)

Finish color: White

Weight: 2.6kg

* Non heat insulating construction.



Continuous dimmable type (5 to 100%)

EDL69600DWW/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
3,290lm	69.6W to 66.7W
Luminous Efficacy	LED Module Life
47.3lm/W to 49.3lm/W	60,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 3,400K (White)	90

Specifications

Body: Diecast aluminum

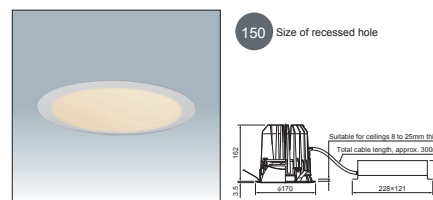
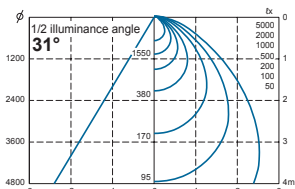
Frame: Plastic

Bottom cover: Acrylic (diffuse)

Finish color: White

Weight: 2.6kg

* Non heat insulating construction.



Continuous dimmable type (5 to 100%)

EDL69600DL/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
3,060lm	69.6W to 66.7W
Luminous Efficacy	LED Module Life
44.0lm/W to 45.9lm/W	60,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 2,900K (Warm white)	90

Specifications

Body: Diecast aluminum

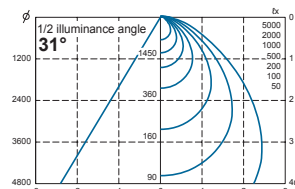
Frame: Plastic

Bottom cover: Acrylic (diffuse)

Finish color: White

Weight: 2.6kg

* Non heat insulating construction.



*1 Foregoing illuminance diagram indicates initial values (unit: lx).

*2 Indicates light sources whose brightness is equivalent when compared to the horizontal illuminance (initial) of high-output, daylight types.

Class 200 (Equivalent to FHT42W)*2

150

Size of recessed hole

165

100

3.4

170

10

25mm thick

Standard

EDL24202N/SA9

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

EDL24702DN/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
1,910lm	[Standard] 24.2W to 23.8W [Dimmable] 24.7W to 24.3W
Luminous Efficacy	
[Standard] 78.9lm/W to 80.3lm/W [Dimmable] 77.3lm/W to 78.6lm/W	
LED Module Life	Light Color
60,000hours	Equivalent to 5,000K (Daylight)
Color Rendering Index (Ra)	
70	

Specifications

Body: Diecast aluminum

Frame: Plastic

Bottom cover: Acrylic (diffuse)

Finish color: White

Weight: 0.9kg

* Non heat insulating construction.

1/2 illuminance angle

31°

1200

2400

3600

4800

3

2

1

0

1

2

3m

2000

1000

500

200

100

50

20

10

5

2

1

0

1

2

3m

150

Size of recessed hole

165

100

3.4

170

10

25mm thick

Standard

EDL24202WW/SA9

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

EDL24702DWW/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
1,210lm	[Standard] 24.2W to 23.8W [Dimmable] 24.7W to 24.3W
Luminous Efficacy	
[Standard] 50.0lm/W to 50.8lm/W [Dimmable] 49.0lm/W to 49.8lm/W	
LED Module Life	Light Color
60,000hours	Equivalent to 3,400K (White)
Color Rendering Index (Ra)	
90	

Specifications

Body: Diecast aluminum

Frame: Plastic

Bottom cover: Acrylic (diffuse)

Finish color: White

Weight: 0.9kg

* Non heat insulating construction.

1/2 illuminance angle

31°

1200

2400

3600

4800

3

2

1

0

1

2

3m

2000

1000

500

200

100

50

20

10

5

2

1

0

1

2

3m

150

Size of recessed hole

165

100

3.4

170

10

25mm thick

Standard

EDL24202L/SA9

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

EDL24702DL/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
1,130lm	[Standard] 24.2W to 23.8W [Dimmable] 24.7W to 24.3W
Luminous Efficacy	
[Standard] 46.7lm/W to 47.5lm/W [Dimmable] 45.7lm/W to 46.5lm/W	
LED Module Life	Light Color
60,000hours	Equivalent to 2,900K (Warm white)
Color Rendering Index (Ra)	
90	

Specifications

Body: Diecast aluminum

Frame: Plastic

Bottom cover: Acrylic (diffuse)

Finish color: White

Weight: 0.9kg

* Non heat insulating construction.

1/2 illuminance angle

31°

1200

2400

3600

4800

3

2

1

0

1

2

3m

2000

1000

500

200

100

50

20

10

5

2

1

0

1

2

3m

Class 200 (Equivalent to FHT42W)*2

125

Size of recessed hole

165

100

3.4

135

10

25mm thick

Standard

EDL24201N/SA9

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

EDL24701DN/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
1,870lm	[Standard] 24.2W to 23.8W [Dimmable] 24.7W to 24.3W
Luminous Efficacy	
[Standard] 77.3lm/W to 78.6lm/W [Dimmable] 75.7lm/W to 77.0lm/W	
LED Module Life	Light Color
60,000hours	Equivalent to 5,000K (Daylight)
Color Rendering Index (Ra)	
70	

Specifications

Body: Diecast aluminum

Frame: Plastic

Bottom cover: Acrylic (diffuse)

Finish color: White

Weight: 0.9kg

* Non heat insulating construction.

1/2 illuminance angle

31°

1200

2400

3600

4800

3

2

1

0

1

2

3m

2000

1000

500

200

100

50

20

10

5

2

1

0

1

2

3m

125

Size of recessed hole

165

100

3.4

135

10

25mm thick

Standard

EDL24201WW/SA9

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

EDL24701DWW/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
1,190lm	[Standard] 24.2W to 23.8W [Dimmable] 24.7W to 24.3W
Luminous Efficacy	
[Standard] 49.2lm/W to 50.0lm/W [Dimmable] 48.2lm/W to 49.0lm/W	
LED Module Life	Light Color
60,000hours	Equivalent to 3,400K (White)
Color Rendering Index (Ra)	
90	

Specifications

Body: Diecast aluminum

Frame: Plastic

Bottom cover: Acrylic (diffuse)

Finish color: White

Weight: 0.9kg

* Non heat insulating construction.

1/2 illuminance angle

31°

1200

2400

3600

4800

3

2

1

0

1

2

3m

2000

1000

500

200

100

50

20

10

5

2

1

0

1

2

3m

125

Size of recessed hole

165

100

3.4

135

10

25mm thick

Standard

EDL24201L/SA9

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

EDL24701DL/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
1,110lm	[Standard] 24.2W to 23.8W [Dimmable] 24.7W to 24.3W
Luminous Efficacy	
[Standard] 45.9lm/W to 46.6lm/W [Dimmable] 44.9lm/W to 45.7lm/W	
LED Module Life	Light Color
60,000hours	Equivalent to 2,900K (Warm white)
Color Rendering Index (Ra)	
90	

Specifications

Body: Diecast aluminum

Frame: Plastic

Bottom cover: Acrylic (diffuse)

Finish color: White

Weight: 0.9kg

* Non heat insulating construction.

1/2 illuminance angle

31°

1200

2400

3600

4800

3

2

1

0

1

2

3m

2000

1000

500

200

100

50

20

10

5

2

1

0

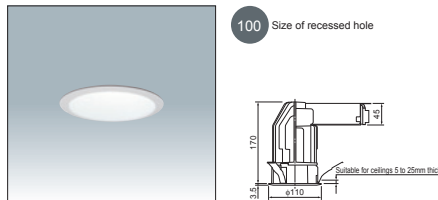
1

2

3m

*1 Foregoing illuminance diagram indicates initial values (unit: lx).
*2 Indicates light sources whose brightness is equivalent when compared to the horizontal illuminance (initial) of high-output, daylight types.

Class 200 (Equivalent to FHT42W)*2



Standard

EDL24200N/SA9
(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

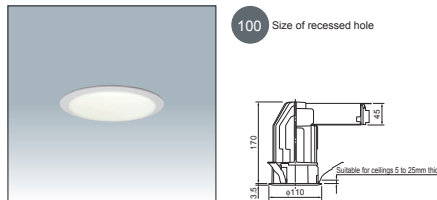
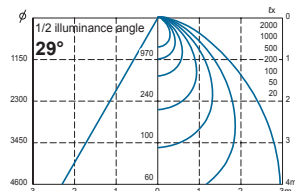
EDL24700DN/SA9
(100/200V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power Consumption	
1,800ℓm		[Standard] 24.2W to 23.8W [Dimmable] 24.7W to 24.3W	
Luminous Efficacy			
[Standard] 74.4ℓm/W to 75.6ℓm/W [Dimmable] 72.9ℓm/W to 74.1ℓm/W			
LED Module Life	Light Color		Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Daylight)		70

Specifications

Body: Diecast aluminum
Frame: Plastic
Bottom cover: Acrylic (diffuse)
Finish color: White
Weight: 0.9kg

* Non heat insulating construction.



Standard

EDL24200WW/SA9
(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

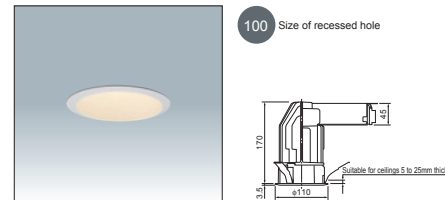
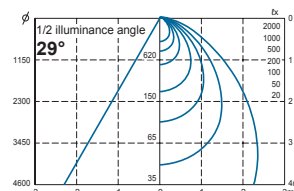
EDL24700DWW/SA9
(100/200V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power Consumption	
1,150ℓm		[Standard] 24.2W to 23.8W [Dimmable] 24.7W to 24.3W	
Luminous Efficacy			
[Standard] 47.5ℓm/W to 48.3ℓm/W [Dimmable] 46.6ℓm/W to 47.3ℓm/W			
LED Module Life	Light Color	Color Rendering Index (Ra)	
60,000hours	Equivalent to 3,400K (White)	90	

Specifications

Body: Diecast aluminum
Frame: Plastic
Bottom cover: Acrylic (diffuse)
Finish color: White
Weight: 0.9kg

* Non heat insulating construction.



Standard

EDL24200L/SA9
(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

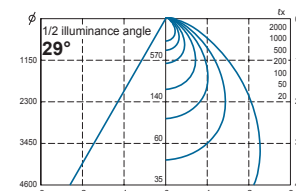
EDL24700DL/SA9
(100/200V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power Consumption	
1,070lm		[Standard] 24.2W to 23.8W [Dimmable] 24.7W to 24.3W	
Luminous Efficacy			
[Standard] 44.2lm/W to 45.0lm/W [Dimmable] 43.3lm/W to 44.0lm/W			
LED Module Life	Light Color		Color Rendering Index (Ra)
60,000hours	Equivalent to 2,900K (Warm white)		90

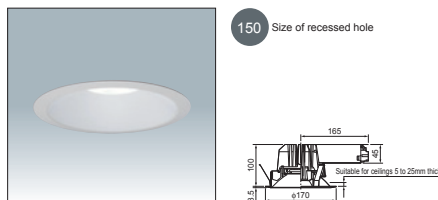
Specifications

Body: Diecast aluminum
Frame: Plastic
Bottom cover: Acrylic (diffuse)
Finish color: White
Weight: 0.9kg

* Non heat insulating construction.



Class 150 (Equivalent to FHT32W)*2



Standard

EDL19602N/SA9
(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

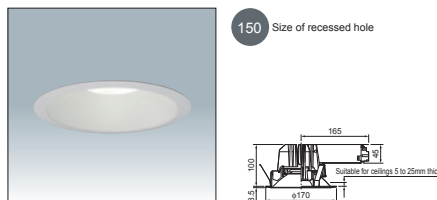
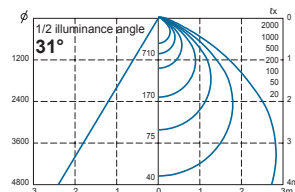
EDL20002DN/SA9
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power Consumption	
1,570lm		[Standard] 19.6W to 19.2W [Dimmable] 20W to 20.3W	
Luminous Efficacy			
[Standard] 80.1lm/W to 81.8lm/W [Dimmable] 78.5lm/W to 77.3lm/W			
LED Module Life	Light Color		Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Daylight)		70

Specifications

Body: Diecast aluminum
Frame: Plastic
Bottom cover: Acrylic (diffuse)
Finish color: White
Weight: 0.9kg

* Non heat insulating construction.



Standard

EDL19602WW/SA9
(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

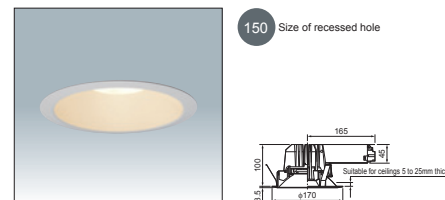
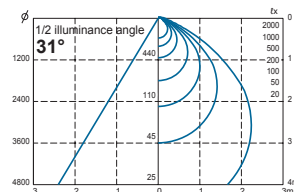
EDL20002DWW/SA9
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power Consumption	
980lm		[Standard] 19.6W to 19.2W [Dimmable] 20W to 20.3W	
Luminous Efficacy			
[Standard] 50.0lm/W to 51.0lm/W [Dimmable] 49.0lm/W to 48.3lm/W			
LED Module Life	Light Color	Color Rendering Index (Ra)	
60,000hours	Equivalent to 3,400K (White)	90	

Specifications

Body: Diecast aluminum
Frame: Plastic
Bottom cover: Acrylic (diffuse)
Finish color: White
Weight: 0.9kg

* Non heat insulating construction.



Standard

EDL19602L/SA9
(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

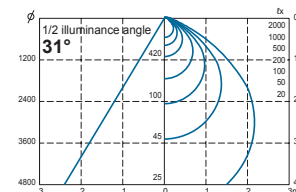
EDL20002DL/SA9
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)		Power Consumption	
920lm		[Standard] 19.6W to 19.2W [Dimmable] 20W to 20.3W	
Luminous Efficacy			
[Standard] 46.9lm/W to 47.9lm/W [Dimmable] 46.0lm/W to 45.3lm/W			
LED Module Life	Light Color		Color Rendering Index (Ra)
60,000hours	Equivalent to 2,900K (Warm white)		90

Specifications

Body: Diecast aluminum
Frame: Plastic
Bottom cover: Acrylic (diffuse)
Finish color: White
Weight: 0.9kg

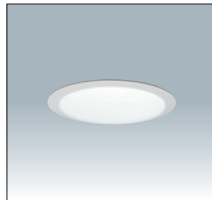
* Non heat insulating construction.



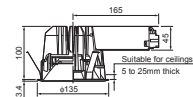
*1 Foregoing illuminance diagram indicates initial values (unit: lx).

*2 Indicates light sources whose brightness is equivalent when compared to the horizontal illuminance (initial) of high-output, daylight types.

Class 150 (Equivalent to FHT32W)*2



125 Size of recessed hole



Standard

EDL19601N/SA9

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

EDL20001DN/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
1,540lm	[Standard] 19.6W to 19.2W [Dimmable] 20W to 20.3W

Luminous Efficacy		
[Standard] 78.6lm/W to 80.2lm/W [Dimmable] 77.0lm/W to 75.9lm/W		

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Daylight)	70

Specifications

Body: Diecast aluminum

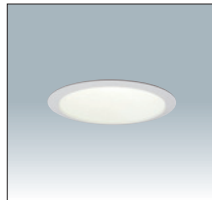
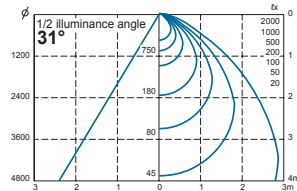
Frame: Plastic

Bottom cover: Acrylic (diffuse)

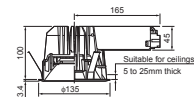
Finish color: White

Weight: 0.9kg

* Non heat insulating construction.



125 Size of recessed hole



Standard

EDL19601WW/SA9

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

EDL20001DWW/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
965lm	[Standard] 19.6W to 19.2W [Dimmable] 20W to 20.3W

Luminous Efficacy		
[Standard] 49.2lm/W to 50.3lm/W [Dimmable] 48.3lm/W to 47.5lm/W		

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 3,400K (White)	90

Specifications

Body: Diecast aluminum

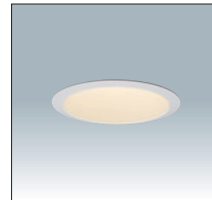
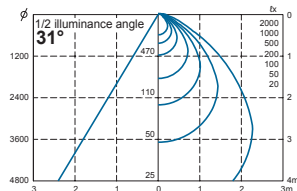
Frame: Plastic

Bottom cover: Acrylic (diffuse)

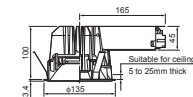
Finish color: White

Weight: 0.9kg

* Non heat insulating construction.



125 Size of recessed hole



Standard

EDL19601L/SA9

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

EDL20001DL/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
910lm	[Standard] 19.6W to 19.2W [Dimmable] 20W to 20.3W

Luminous Efficacy		
[Standard] 46.4lm/W to 47.4lm/W [Dimmable] 45.5lm/W to 44.8lm/W		

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 2,900K (Warm white)	90

Specifications

Body: Diecast aluminum

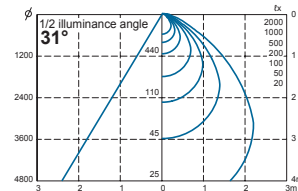
Frame: Plastic

Bottom cover: Acrylic (diffuse)

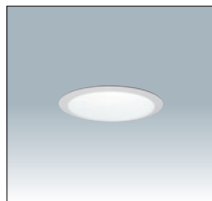
Finish color: White

Weight: 0.9kg

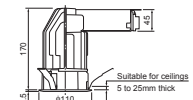
* Non heat insulating construction.



Class 150 (Equivalent to FHT32W)*2



100 Size of recessed hole



Standard

EDL19600N/SA9

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

EDL20000DN/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
1,480lm	[Standard] 19.6W to 19.2W [Dimmable] 20W to 20.3W

Luminous Efficacy		
[Standard] 75.5lm/W to 77.8lm/W [Dimmable] 74.0lm/W to 72.9lm/W		

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Daylight)	70

Specifications

Body: Diecast aluminum

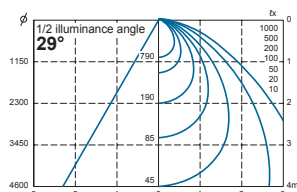
Frame: Plastic

Bottom cover: Acrylic (diffuse)

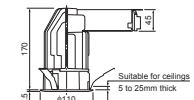
Finish color: White

Weight: 0.9kg

* Non heat insulating construction.



100 Size of recessed hole



Standard

EDL19600WW/SA9

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

EDL20000DWW/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
930lm	[Standard] 19.6W to 19.2W [Dimmable] 20W to 20.3W

Luminous Efficacy		
[Standard] 47.4lm/W to 48.4lm/W [Dimmable] 46.5lm/W to 45.8lm/W		

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 3,400K (White)	90

Specifications

Body: Diecast aluminum

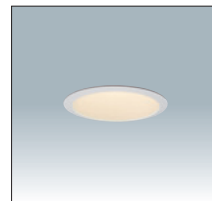
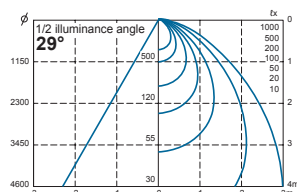
Frame: Plastic

Bottom cover: Acrylic (diffuse)

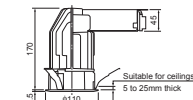
Finish color: White

Weight: 0.9kg

* Non heat insulating construction.



100 Size of recessed hole



Standard

EDL19600L/SA9

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

EDL20000DL/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
870lm	[Standard] 19.6W to 19.2W [Dimmable] 20W to 20.3W

Luminous Efficacy		
[Standard] 44.4lm/W to 45.3lm/W [Dimmable] 43.5lm/W to 42.9lm/W		

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 2,900K (Warm white)	90

Specifications

Body: Diecast aluminum

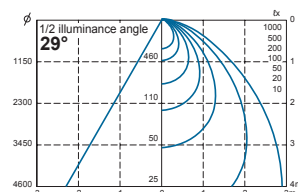
Frame: Plastic

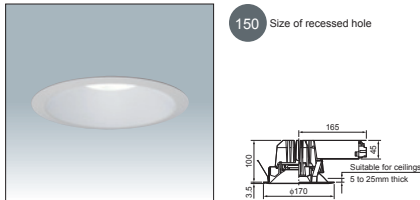
Bottom cover: Acrylic (diffuse)

Finish color: White

Weight: 0.9kg

* Non heat insulating construction.



Class 100 (Equivalent to FHT24W or 100W incandescent)**Standard****EDL13302N/SA9**

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)**EDL13802DN/SA9**

(100 to 242V, 50/60Hz)

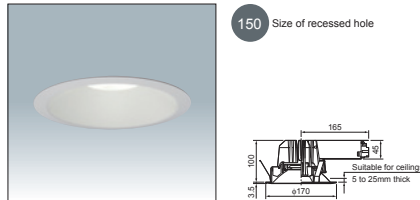
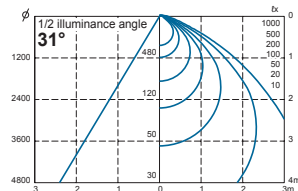
Rated luminous flux (luminaire luminous flux)	Power Consumption
1,060lm	[Standard] 13.3W to 13.5W [Dimmable] 13.8W to 14.3W

Luminous Efficacy
[Standard] 79.7lm/W to 78.5lm/W [Dimmable] 76.8lm/W to 74.1lm/W

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Daylight)	70

Specifications**Body:** Diecast aluminum**Frame:** Plastic**Bottom cover:** Acrylic (diffuse)**Finish color:** White**Weight:** 0.9kg

* Non heat insulating construction.

**Standard****EDL13302WW/SA9**

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)**EDL13802DWW/SA9**

(100 to 242V, 50/60Hz)

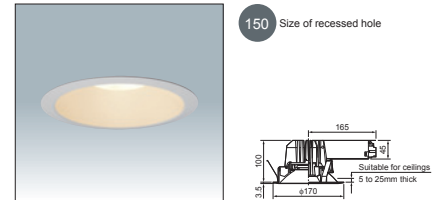
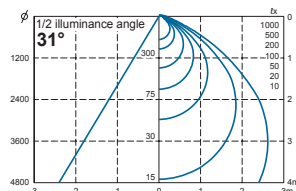
Rated luminous flux (luminaire luminous flux)	Power Consumption
670lm	[Standard] 13.3W to 13.5W [Dimmable] 13.8W to 14.3W

Luminous Efficacy
[Standard] 50.4lm/W to 49.6lm/W [Dimmable] 48.6lm/W to 46.9lm/W

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 3,400K (White)	90

Specifications**Body:** Diecast aluminum**Frame:** Plastic**Bottom cover:** Acrylic (diffuse)**Finish color:** White**Weight:** 0.9kg

* Non heat insulating construction.

**Standard****EDL13302L/SA9**

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)**EDL13802DL/SA9**

(100 to 242V, 50/60Hz)

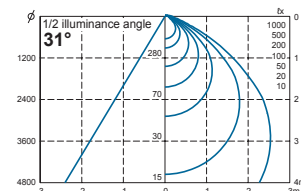
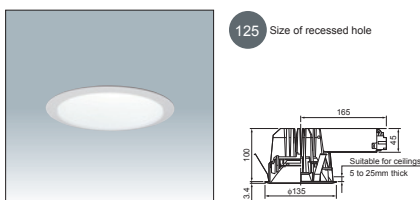
Rated luminous flux (luminaire luminous flux)	Power Consumption
630lm	[Standard] 13.3W to 13.5W [Dimmable] 13.8W to 14.3W

Luminous Efficacy
[Standard] 47.4lm/W to 46.7lm/W [Dimmable] 45.7lm/W to 44.1lm/W

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 2,900K (Warm white)	90

Specifications**Body:** Diecast aluminum**Frame:** Plastic**Bottom cover:** Acrylic (diffuse)**Finish color:** White**Weight:** 0.9kg

* Non heat insulating construction.

**Class 100** (Equivalent to FHT24W or 100W incandescent)**Standard****EDL13301N/SA9**

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)**EDL13801DN/SA9**

(100 to 242V, 50/60Hz)

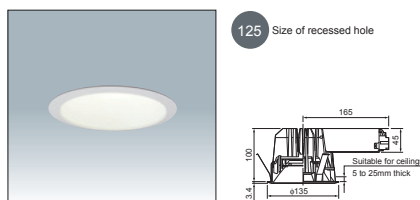
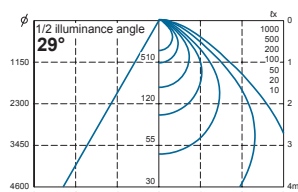
Rated luminous flux (luminaire luminous flux)	Power Consumption
1,040lm	[Standard] 13.3W to 13.5W [Dimmable] 13.8W to 14.3W

Luminous Efficacy
[Standard] 78.2lm/W to 77.0lm/W [Dimmable] 75.4lm/W to 72.7lm/W

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Daylight)	70

Specifications**Body:** Diecast aluminum**Frame:** Plastic**Bottom cover:** Acrylic (diffuse)**Finish color:** White**Weight:** 0.9kg

* Non heat insulating construction.

**Standard****EDL13301WW/SA9**

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)**EDL13801DWW/SA9**

(100 to 242V, 50/60Hz)

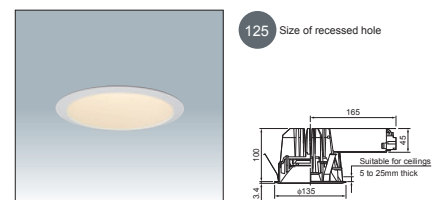
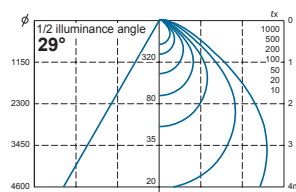
Rated luminous flux (luminaire luminous flux)	Power Consumption
655lm	[Standard] 13.3W to 13.5W [Dimmable] 13.8W to 14.3W

Luminous Efficacy
[Standard] 49.2lm/W to 48.5lm/W [Dimmable] 47.5lm/W to 45.9lm/W

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 3,400K (White)	90

Specifications**Body:** Diecast aluminum**Frame:** Plastic**Bottom cover:** Acrylic (diffuse)**Finish color:** White**Weight:** 0.9kg

* Non heat insulating construction.

**Standard****EDL13301L/SA9**

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)**EDL13801DL/SA9**

(100 to 242V, 50/60Hz)

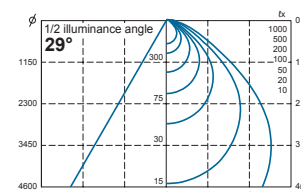
Rated luminous flux (luminaire luminous flux)	Power Consumption
620lm	[Standard] 13.3W to 13.5W [Dimmable] 13.8W to 14.3W

Luminous Efficacy
[Standard] 46.6lm/W to 45.9lm/W [Dimmable] 44.9lm/W to 43.4lm/W

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 2,900K (Warm white)	90

Specifications**Body:** Diecast aluminum**Frame:** Plastic**Bottom cover:** Acrylic (diffuse)**Finish color:** White**Weight:** 0.9kg

* Non heat insulating construction.



*1 Foregoing illuminance diagram indicates initial values (unit: lx).

*2 Indicates light sources whose brightness is equivalent when compared to the horizontal illuminance (initial) of high-output, daylight types.

Class 100 (Equivalent to FHT24W or 100W incandescent)*2

100

Size of recessed hole

170

4.6

5 to 25mm thick

ø110

3.4

Suitable for ceilings

Standard

EDL13300N/SA9

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

EDL13800DN/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
1,000lm	[Standard] 13.3W to 13.5W [Dimmable] 13.8W to 14.3W

Luminous Efficacy		
[Standard] 75.2lm/W to 74.1lm/W [Dimmable] 72.5lm/W to 69.9lm/W		

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Daylight)	70

Specifications

Body: Diecast aluminum

Frame: Plastic

Bottom cover: Acrylic (diffuse)

Finish color: White

Weight: 0.9kg

* Non heat insulating construction.

1/2 illuminance angle

29°

1150

520

130

55

30

4600

1

2

3

4m

0

1

2

3m

100

Size of recessed hole

170

4.6

5 to 25mm thick

ø110

3.4

Suitable for ceilings

Standard

EDL13300WW/SA9

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

EDL13800DWW/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
630lm	[Standard] 13.3W to 13.5W [Dimmable] 13.8W to 14.3W

Luminous Efficacy		
[Standard] 47.4lm/W to 46.7lm/W [Dimmable] 45.7lm/W to 44.1lm/W		

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 3,400K (White)	90

Specifications

Body: Diecast aluminum

Frame: Plastic

Bottom cover: Acrylic (diffuse)

Finish color: White

Weight: 0.9kg

* Non heat insulating construction.

1/2 illuminance angle

29°

1150

330

80

35

20

4600

1

2

3

4m

0

1

2

3m

100

Size of recessed hole

170

4.6

5 to 25mm thick

ø110

3.4

Suitable for ceilings

Standard

EDL13300L/SA9

(100 to 242V, 50/60Hz)

Continuous dimmable type (5 to 100%)

EDL13800DL/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
590lm	[Standard] 13.3W to 13.5W [Dimmable] 13.8W to 14.3W

Luminous Efficacy		
[Standard] 44.4lm/W to 43.7lm/W [Dimmable] 42.8lm/W to 41.2lm/W		

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 2,900K (Warm white)	90

Specifications

Body: Diecast aluminum

Frame: Plastic

Bottom cover: Acrylic (diffuse)

Finish color: White

Weight: 0.9kg

* Non heat insulating construction.

1/2 illuminance angle

29°

1150

300

75

30

15

4600

1

2

3

4m

0

1

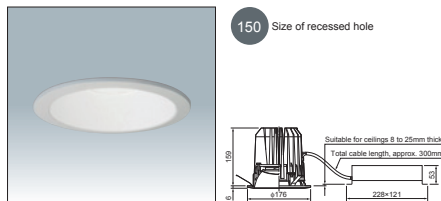
2

3m

99

*1 Foregoing illuminance diagram indicates initial values (unit: lx).

*2 Indicates light sources whose brightness is equivalent when compared to the horizontal illuminance (initial) of high-output, daylight types.

Class 500 (Equivalent to 70W compact metal halide lamp)²**Weather-proof** Continuous dimmable type (5 to 100%)**EDL69610DN/SA9**

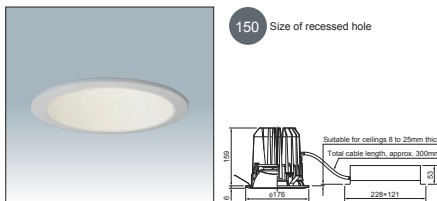
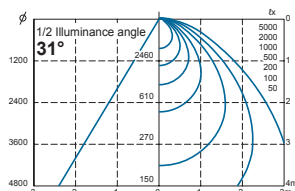
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	5,200lm	Power Consumption	69.6W to 66.7W
Luminous Efficacy	74.7lm/W to 78.0lm/W	LED Module Life	60,000hours
Light Color	Equivalent to 5,000K (Daylight)	Color Rendering Index (Ra)	70

Specifications**Body:** Diecast aluminum**Frame:** Plastic**Bottom cover:** Acrylic (diffuse)**Finish color:** White**Weight:** 2.6kg

* Non heat insulating construction.

* Do not use in very humid locations, such as bathrooms.

**Weather-proof** Continuous dimmable type (5 to 100%)**EDL69610DWW/SA9**

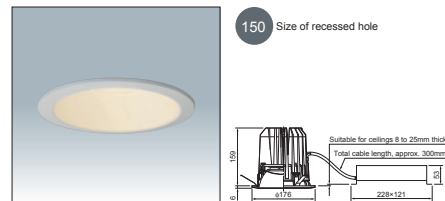
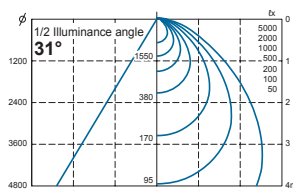
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	3,290lm	Power Consumption	69.6W to 66.7W
Luminous Efficacy	47.3lm/W to 49.3lm/W	LED Module Life	60,000hours
Light Color	Equivalent to 3,400K (White)	Color Rendering Index (Ra)	90

Specifications**Body:** Diecast aluminum**Frame:** Plastic**Bottom cover:** Acrylic (diffuse)**Finish color:** White**Weight:** 2.6kg

* Non heat insulating construction.

* Do not use in very humid locations, such as bathrooms.

**Weather-proof** Continuous dimmable type (5 to 100%)**EDL69610DL/SA9**

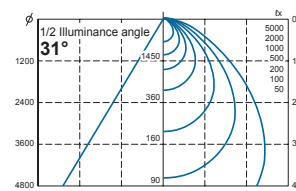
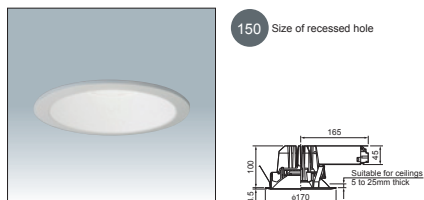
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	3,060lm	Power Consumption	69.6W to 66.7W
Luminous Efficacy	44.0lm/W to 45.9lm/W	LED Module Life	60,000hours
Light Color	Equivalent to 2,900K (Warm white)	Color Rendering Index (Ra)	90

Specifications**Body:** Diecast aluminum**Frame:** Plastic**Bottom cover:** Acrylic (diffuse)**Finish color:** White**Weight:** 2.6kg

* Non heat insulating construction.

* Do not use in very humid locations, such as bathrooms.

**Class 200** (Equivalent to FHT42W)²**Weather-proof****EDL24210N/SA9**

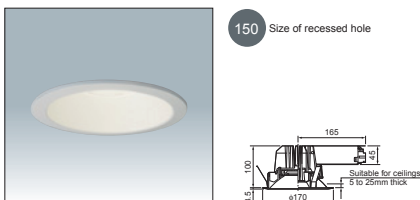
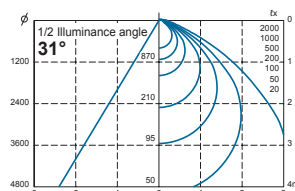
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	1,910lm	Power Consumption	24.2W to 23.8W
Luminous Efficacy	78.9lm/W to 80.3lm/W	LED Module Life	60,000hours
Light Color	Equivalent to 5,000K (Daylight)	Color Rendering Index (Ra)	70

Specifications**Body:** Diecast aluminum**Frame:** Plastic**Bottom cover:** Acrylic (diffuse)**Finish color:** White**Weight:** 0.9kg

* Non heat insulating construction.

* Do not use in very humid locations, such as bathrooms.

**Weather-proof****EDL24210WW/SA9**

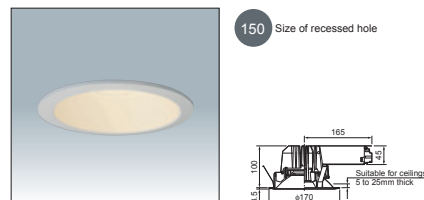
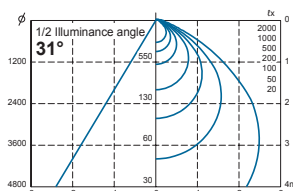
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	1,210lm	Power Consumption	24.2W to 23.8W
Luminous Efficacy	50.0lm/W to 50.8lm/W	LED Module Life	60,000hours
Light Color	Equivalent to 3,400K (White)	Color Rendering Index (Ra)	90

Specifications**Body:** Diecast aluminum**Frame:** Plastic**Bottom cover:** Acrylic (diffuse)**Finish color:** White**Weight:** 0.9kg

* Non heat insulating construction.

* Do not use in very humid locations, such as bathrooms.

**Weather-proof****EDL24210L/SA9**

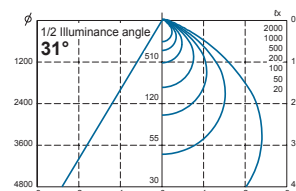
(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	1,130lm	Power Consumption	24.2W to 23.8W
Luminous Efficacy	46.7lm/W to 47.5lm/W	LED Module Life	60,000hours
Light Color	Equivalent to 2,900K (Warm white)	Color Rendering Index (Ra)	90

Specifications**Body:** Diecast aluminum**Frame:** Plastic**Bottom cover:** Acrylic (diffuse)**Finish color:** White**Weight:** 0.9kg

* Non heat insulating construction.

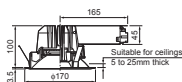
* Do not use in very humid locations, such as bathrooms.

¹ Foregoing illuminance diagram indicates initial values (unit: lx).² Indicates light sources whose brightness is equivalent when compared to the horizontal illuminance (initial) of high-output, daylight types.

Class 150 (Equivalent to FHT32W)²



150 Size of recessed hole



Weather-proof

EDL19610N/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
1,570lm	19.6W to 19.2W
Luminous Efficacy	LED Module Life
80.1lm/W to 81.8lm/W	60,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 5,000K (Daylight)	70

Specifications

Body: Diecast aluminum

Frame: Plastic

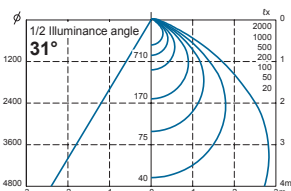
Bottom cover: Acrylic (diffuse)

Finish color: White

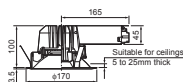
Weight: 0.9kg

* Non heat insulating construction.

* Do not use in very humid locations, such as bathrooms.



150 Size of recessed hole



Weather-proof

EDL19610WW/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
980lm	19.6W to 19.2W
Luminous Efficacy	LED Module Life
50.5lm/W to 51.0lm/W	60,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 3,400K (White)	90

Specifications

Body: Diecast aluminum

Frame: Plastic

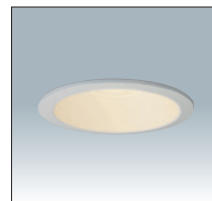
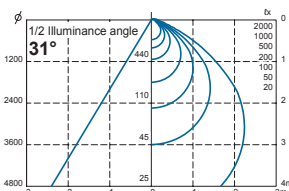
Bottom cover: Acrylic (diffuse)

Finish color: White

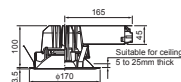
Weight: 0.9kg

* Non heat insulating construction.

* Do not use in very humid locations, such as bathrooms.



150 Size of recessed hole



Weather-proof

EDL19610L/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
920lm	19.6W to 19.2W
Luminous Efficacy	LED Module Life
46.9lm/W to 47.9lm/W	60,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 2,900K (Warm white)	90

Specifications

Body: Diecast aluminum

Frame: Plastic

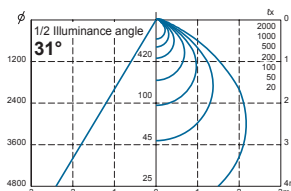
Bottom cover: Acrylic (diffuse)

Finish color: White

Weight: 0.9kg

* Non heat insulating construction.

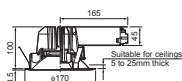
* Do not use in very humid locations, such as bathrooms.



Class 100 (Equivalent to FHT24W or 100W incandescent)²



150 Size of recessed hole



Weather-proof

EDL13310N/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
1,060lm	13.5W to 13.3W
Luminous Efficacy	LED Module Life
78.5lm/W to 79.7lm/W	60,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 5,000K (Daylight)	70

Specifications

Body: Diecast aluminum

Frame: Plastic

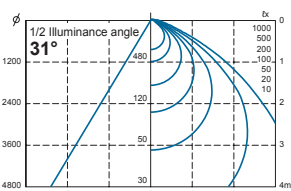
Bottom cover: Acrylic (diffuse)

Finish color: White

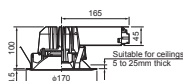
Weight: 0.9kg

* Non heat insulating construction.

* Do not use in very humid locations, such as bathrooms.



150 Size of recessed hole



Weather-proof

EDL13310WW/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
670lm	13.5W to 13.3W
Luminous Efficacy	LED Module Life
49.6lm/W to 50.4lm/W	60,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 3,400K (White)	90

Specifications

Body: Diecast aluminum

Frame: Plastic

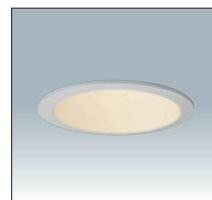
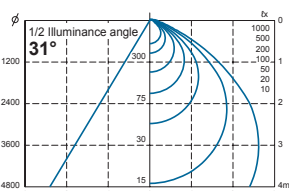
Bottom cover: Acrylic (diffuse)

Finish color: White

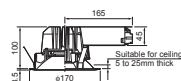
Weight: 0.9kg

* Non heat insulating construction.

* Do not use in very humid locations, such as bathrooms.



150 Size of recessed hole



Weather-proof

EDL13310L/SA9

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
670lm	13.5W to 13.3W
Luminous Efficacy	LED Module Life
49.6lm/W to 50.4lm/W	60,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 2,900K (Warm white)	90

Specifications

Body: Diecast aluminum

Frame: Plastic

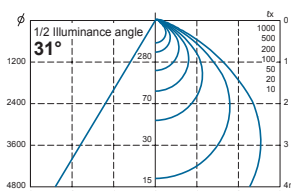
Bottom cover: Acrylic (diffuse)

Finish color: White

Weight: 0.9kg

* Non heat insulating construction.

* Do not use in very humid locations, such as bathrooms.



*1 Foregoing illuminance diagram indicates initial values (unit: lx).

*2 Indicates light sources whose brightness is equivalent when compared to the horizontal illuminance (initial) of high-output, daylight types.

LED Light Bulb	Street Lighting	Park and Landscape Luminaires	Landscape Luminaires	Floodlights	High-bay Luminaires	Downlights	Universal Downlights	Special Luminaires for Industrial Applications	
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LEDiOC LED Universal Downlights



Class 300 (Equivalent to 70W compact metal halide lamp)



Class 100 (Equivalent to 75W halogen)

Extensive variety

A wide variety, from the equivalent of a 70W compact metal halide lamp to that of a 50W halogen lamp.

A three light-color lineup

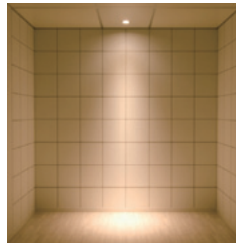
In addition to refreshing daylight and warm white bulbs, the lineup includes a natural white light in the white type.

Light color

Equivalent to 5,000K (Daylight)



Equivalent to 3,500K (White)



Equivalent to 3,000K (Warm white)

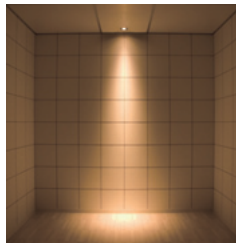


A lineup with 4 types of light distribution

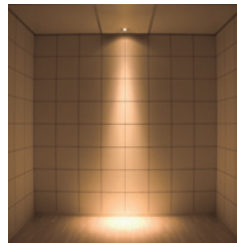
The lineup consists of 4 types of light distribution at 10°, 15°, 20° and 30°, designed to be used in various conditions, such as for different ceiling heights and ways to show products.
(Classes 300/200 offer 2 light distributions, at 20°/30°)

Light distribution Class 100/75

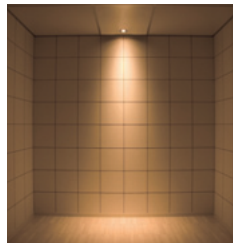
1/2 beam angle 10°



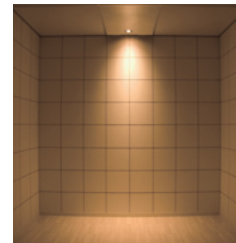
1/2 beam angle 15°



1/2 beam angle 20°



1/2 beam angle 30°



Long Life

LED modules have a long service life of 60,000hours (maximum length). This substantially cuts maintenance costs.

Dimmable lineup

Our lineup of dimmable lights generates even more energy savings
(Class 200/300 are signal controlled; class 75/100 are phase controlled)

■ Comparison when replacing a conventional light source (HID/halogen lamp) with LED universal downlights.

Comparison per light <Class 300>

	LC46085 (MT70CE-W/EU10) (CE0.7ESH-1/2.4-L8)	EDU4700DN/M (ESP-T0004/SA9)
Luminaire luminous flux	3,930lm	About 0.79 times → 3,110lm
Power Consumption	81W	About 42% decrease → 47W
Luminous Efficacy	48.5lm/W	About 1.4 times → 66.2lm/W
Lifetime	15,000Hrs	About 2.7 times → 40,000Hrs

Comparison per light <Class 100>

	DWD17032 (JR12V45WUV/MK5EZ/HA2)	EDU14600DL (EPS-T0002/SA1) (EPL-X0003)
Luminaire luminous flux	650lm	About the same → 660lm
Power Consumption	45W	About 67.6% decrease → 14.6W
Luminous Efficacy	14.4lm/W	About 3.1 times → 45.2lm/W
Lifetime	5,000Hrs	About 8 times → 40,000Hrs

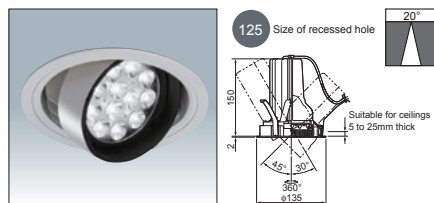
Comparison per light <Class 200>

	LC46085 (MT35CE-W/EU10) (CE0.35ESH-1/2.4-L8)	EDU35700DN/M (EPS-T0003/SA9)
Luminaire luminous flux	2,000lm	About 1.2 times → 2,440lm
Power Consumption	46W	About 22.4% decrease → 35.7W
Luminous Efficacy	43.5lm/W	About 1.6 times → 67.8lm/W
Lifetime	12,000Hrs	About 3.3 times → 40,000Hrs

Comparison per light <Class 75>

	DWD17032 (JR12V30WUV/MK5EZ/HA2)	EDU10000DL (EPS-T0001/SA1) (EPL-X0003)
Luminaire luminous flux	400lm	About 0.96 times → 385lm
Power Consumption	30W	About 66.7% decrease → 10.0W
Luminous Efficacy	13.3lm/W	About 2.9 times → 38.5lm/W
Lifetime	5,000Hrs	About 12 times → 60,000Hrs

Class 300 (Equivalent to 70W compact metal halide lamp)*2



Continuous dimmable (signal controlled, 25 to 100%)

EDU47000DN/M

(100 to 242V, 50/60Hz)

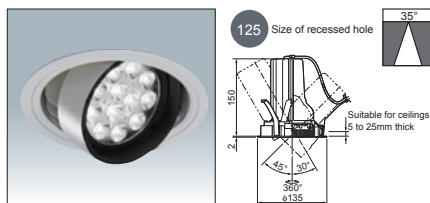
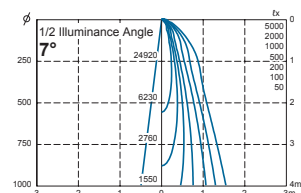
Luminaire: EDU47000DN/M
Power supply unit: EPS-T0004/SA9

Rated luminous flux (luminaire luminous flux)	Power Consumption
3,110lm	47W
Luminous Efficacy	LED Module Life
66.2lm/W	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 5,000K (Daylight)	68

Specifications

Body: Diecast aluminum
Frame: Diecast aluminum
Finish color: White
Weight: 0.9kg

* Non heat insulating construction.



Continuous dimmable (signal controlled, 25 to 100%)

EDU47000DN/W

(100 to 242V, 50/60Hz)

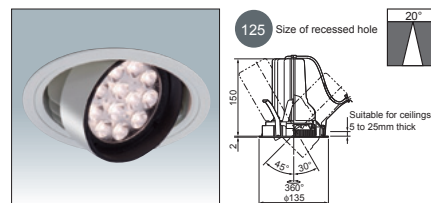
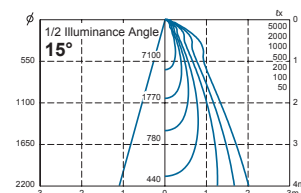
Luminaire: EDU47000DN/W
Power supply unit: EPS-T0004/SA9

Rated luminous flux (luminaire luminous flux)	Power Consumption
3,060lm	47W
Luminous Efficacy	LED Module Life
65.1lm/W	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 5,000K (Daylight)	68

Specifications

Body: Diecast aluminum
Frame: Diecast aluminum
Finish color: White
Weight: 0.9kg

* Non heat insulating construction.



Continuous dimmable (signal controlled, 25 to 100%)

EDU47000DWW/M

(100 to 242V, 50/60Hz)

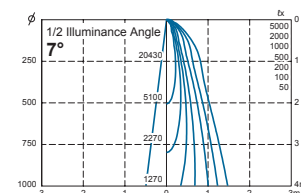
Luminaire: EDU47000DWW/M
Power supply unit: EPS-T0004/SA9

Rated luminous flux (luminaire luminous flux)	Power Consumption
2,550lm	47W
Luminous Efficacy	LED Module Life
54.3lm/W	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 3,500K (White)	85

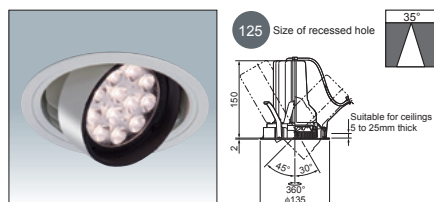
Specifications

Body: Diecast aluminum
Frame: Diecast aluminum
Finish color: White
Weight: 0.9kg

* Non heat insulating construction.



Class 300 (Equivalent to 70W compact metal halide lamp)*2



Continuous dimmable (signal controlled, 25 to 100%)

EDU47000DWW/W

(100 to 242V, 50/60Hz)

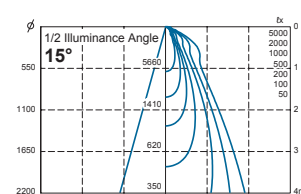
Luminaire: EDU47000DWW/W
Power supply unit: EPS-T0004/SA9

Rated luminous flux (luminaire luminous flux)	Power Consumption
2,440lm	47W
Luminous Efficacy	LED Module Life
51.9lm/W	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 3,500K (White)	85

Specifications

Body: Diecast aluminum
Frame: Diecast aluminum
Finish color: White
Weight: 0.9kg

* Non heat insulating construction.



Continuous dimmable (signal controlled, 25 to 100%)

EDU47000DL/M

(100 to 242V, 50/60Hz)

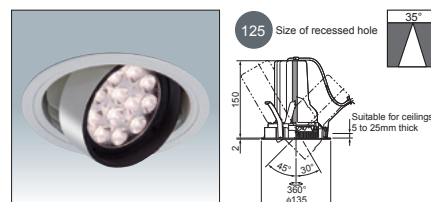
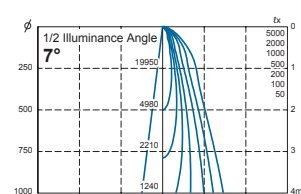
Luminaire: EDU47000DL/M
Power supply unit: EPS-T0004/SA9

Rated luminous flux (luminaire luminous flux)	Power Consumption
2,490lm	47W
Luminous Efficacy	LED Module Life
53.0lm/W	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 3,000K (Warm white)	85

Specifications

Body: Diecast aluminum
Frame: Diecast aluminum
Finish color: White
Weight: 0.9kg

* Non heat insulating construction.



Continuous dimmable (signal controlled, 25 to 100%)

EDU47000DL/W

(100 to 242V, 50/60Hz)

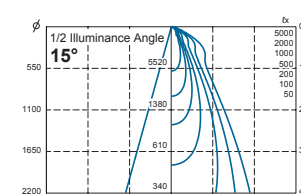
Luminaire: EDU47000DL/W
Power supply unit: EPS-T0004/SA9

Rated luminous flux (luminaire luminous flux)	Power Consumption
2,380lm	47W
Luminous Efficacy	LED Module Life
50.6lm/W	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 3,000K (Warm white)	85

Specifications

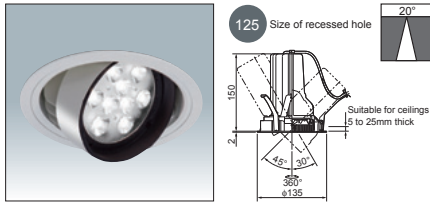
Body: Diecast aluminum
Frame: Diecast aluminum
Finish color: White
Weight: 0.9kg

* Non heat insulating construction.



*1 Foregoing illuminance diagram indicates initial values (unit: lx).

*2 Indicates light sources whose brightness is equivalent when compared to the horizontal illuminance (initial) of high-output, daylight types.

Class 200 (Equivalent to 35W compact metal halide lamp)*2

Continuous dimmable (signal controlled, 25 to 100%)

EDU35700DN/M

(100 to 242V, 50/60Hz)

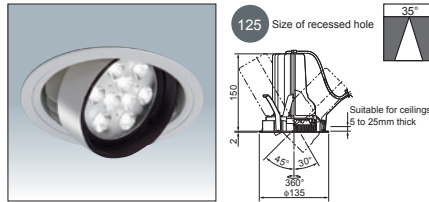
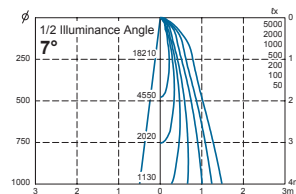
Luminaire: EDU35700DN/M
Power supply unit: EPS-T0003/SA9

Rated luminous flux (luminaire luminous flux)	Power Consumption
2,440lm	35.7W
Luminous Efficacy	LED Module Life
67.8lm/W	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 5,000K (Daylight)	68

Specifications

Body: Diecast aluminum
Frame: Diecast aluminum
Finish color: White
Weight: 0.9kg

* Non heat insulating construction.



Continuous dimmable (signal controlled, 25 to 100%)

EDU35700DN/W

(100 to 242V, 50/60Hz)

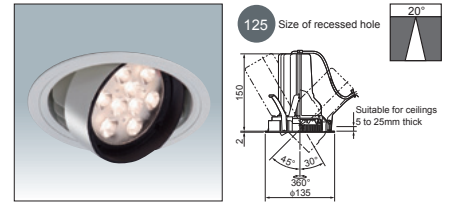
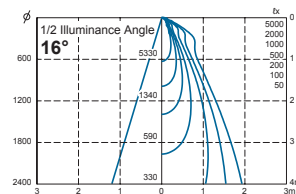
Luminaire: EDU35700DN/W
Power supply unit: EPS-T0003/SA9

Rated luminous flux (luminaire luminous flux)	Power Consumption
2,400lm	35.7W
Luminous Efficacy	LED Module Life
66.7lm/W	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 5,000K (Daylight)	68

Specifications

Body: Diecast aluminum
Frame: Diecast aluminum
Finish color: White
Weight: 0.9kg

* Non heat insulating construction.



Continuous dimmable (signal controlled, 25 to 100%)

EDU35700DWW/M

(100 to 242V, 50/60Hz)

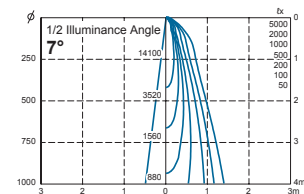
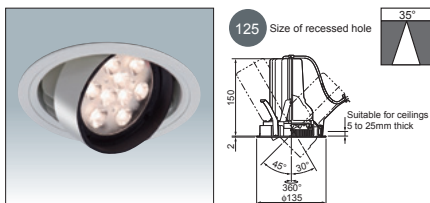
Luminaire: EDU35700DWW/M
Power supply unit: EPS-T0003/SA9

Rated luminous flux (luminaire luminous flux)	Power Consumption
1,890lm	35.7W
Luminous Efficacy	LED Module Life
52.5lm/W	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 3,500K (White)	85

Specifications

Body: Diecast aluminum
Frame: Diecast aluminum
Finish color: White
Weight: 0.9kg

* Non heat insulating construction.

**Class 200** (Equivalent to 35W compact metal halide lamp)*2

Continuous dimmable (signal controlled, 25 to 100%)

EDU35700DWW/W

(100 to 242V, 50/60Hz)

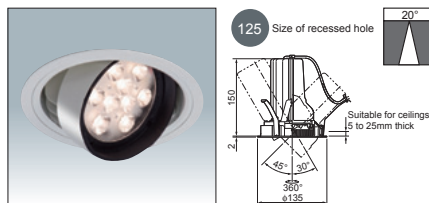
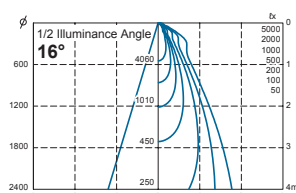
Luminaire: EDU35700DWW/W
Power supply unit: EPS-T0003/SA9

Rated luminous flux (luminaire luminous flux)	Power Consumption
1,810lm	35.7W
Luminous Efficacy	LED Module Life
50.3lm/W	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 3,500K (White)	85

Specifications

Body: Diecast aluminum
Frame: Diecast aluminum
Finish color: White
Weight: 0.9kg

* Non heat insulating construction.



Continuous dimmable (signal controlled, 25 to 100%)

EDU35700DL/M

(100 to 242V, 50/60Hz)

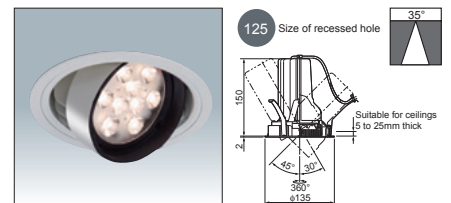
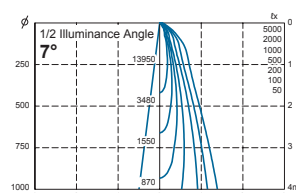
Luminaire: EDU35700DL/M
Power supply unit: EPS-T0003/SA9

Rated luminous flux (luminaire luminous flux)	Power Consumption
1,870lm	35.7W
Luminous Efficacy	LED Module Life
51.9lm/W	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 3,000K (Warm white)	85

Specifications

Body: Diecast aluminum
Frame: Diecast aluminum
Finish color: White
Weight: 0.9kg

* Non heat insulating construction.



Continuous dimmable (signal controlled, 25 to 100%)

EDU35700DL/W

(100 to 242V, 50/60Hz)

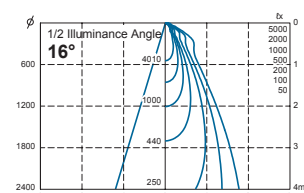
Luminaire: EDU35700DL/W
Power supply unit: EPS-T0003/SA9

Rated luminous flux (luminaire luminous flux)	Power Consumption
1,790lm	35.7W
Luminous Efficacy	LED Module Life
49.7lm/W	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 3,000K (Warm white)	85

Specifications

Body: Diecast aluminum
Frame: Diecast aluminum
Finish color: White
Weight: 0.9kg

* Non heat insulating construction.



*1 Foregoing illuminance diagram indicates initial values (unit: lx).

*2 Indicates light sources whose brightness is equivalent when compared to the horizontal illuminance (initial) of high-output, daylight types.

Explosion-proof Luminaires

Explosion Class: Exde II CT5

Protection Rating: IP65

Ambient operating temperature range:
-20°C to +40°C



Ceiling Mount

LEDiOC

Complies with IEC Standards

Explosion-proof Luminaires/ Floodlights/Pit Lights

Approximately 90% more energy efficient than a 200W explosion-proof incandescent light.

- Contributes to reduced CO₂ emissions and achieves 1/10 energy consumption at 20W (at 200V) over an explosion-free incandescent bulb at 200W for lighting (EXIP201).
- Can be mounted 7 different ways to optimize installation for the usage.
- Can be used in a wide variety of operating temperatures: -20°C to +40°C.

Complies with IEC Standards

Explosion Class: Exde II CT5 (d:luminaire body, power supply unit, e:power supply unit upper box) Protection Rating: IP65

Explosion-proof LED luminaire



Ceiling Mount

EXIL121SA1/2.4-16 (22,28)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
980lm	20W (100 to 240V)
Luminous Efficacy	LED Module Life
49.0lm/W	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 6,500K (Cool daylight)	69

Specifications

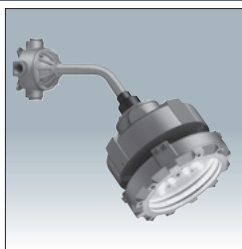
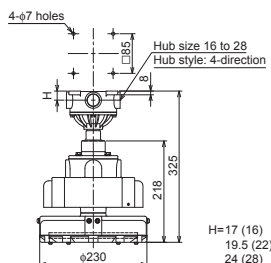
Body: Aluminum alloy casting

Front glass: Tempered glass

Junction box: Cast

Finish color: Gray (Munsell N7)

Weight: 9.3kg



Bracket Mount

EXIL321SA1/2.4-16 (22,28)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
980lm	20W (100 to 240V)
Luminous Efficacy	LED Module Life
49.0lm/W	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 6,500K (Cool daylight)	69

Specifications

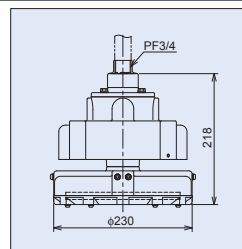
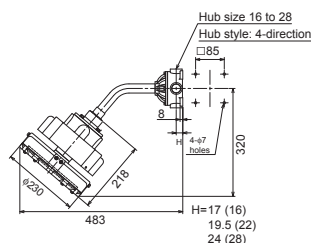
Body: Aluminum alloy casting

Front glass: Tempered glass

Junction box: Cast

Finish color: Gray (Munsell N7)

Weight: 9.8kg



Stand (Ceiling Mount)

EXIL23SA1/2.4-0
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
980lm	20W (100 to 240V)
Luminous Efficacy	LED Module Life
49.0lm/W	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 6,500K (Cool daylight)	69

Specifications

Body: Aluminum alloy casting

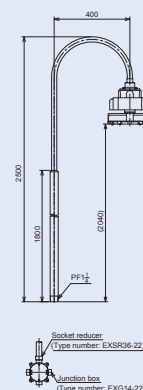
Front glass: Tempered glass

Junction box: Aluminum alloy casting

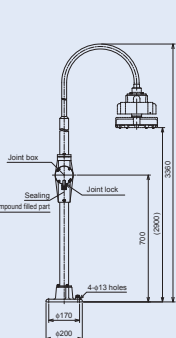
Finish color: Gray (Munsell N7)

Weight: 7.8kg

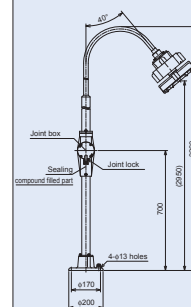
EXPC1/N7(Stand)



EXPC4/N7 (Stand)



EXPC5/N7 (Stand)



Pipe Pendant Mount

EXIL221SA1/2.4-16 (22,28)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
980lm	20W (100 to 240V)
Luminous Efficacy	LED Module Life
49.0lm/W	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 6,500K (Cool daylight)	69

Specifications

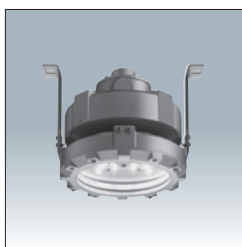
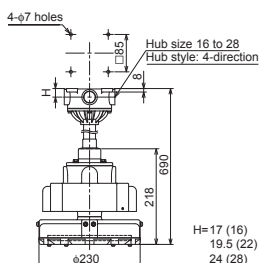
Body: Aluminum alloy casting

Front glass: Tempered glass

Junction box: Cast

Finish color: Gray (Munsell N7)

Weight: 9.8kg



Special Ceiling Mount

EXIL9221SA1/2.4-22
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
980lm	20W (100 to 240V)
Luminous Efficacy	LED Module Life
49.0lm/W	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 6,500K (Cool daylight)	69

Specifications

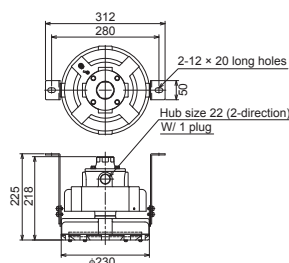
Body: Aluminum alloy casting

Front glass: Tempered glass

Junction box: Cast

Finish color: Gray (Munsell N7)

Weight: 9.0kg

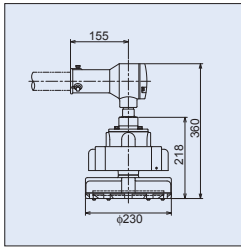


Complies with IEC Standards

Explosion Class: Exde II CT5 (d:luminaire body, power supply unit, e:power supply unit upper box) Protection Rating: IP65

LED IEC EXPLOSION-PROOF LUMAIRES/FLOODLIGHTS/PIT LIGHTS

Explosion-proof LED luminaire



Stand (Pendant Mount)

EXIL21SA1/2.4-0

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	980lm	Power Consumption	20W (100 to 240V)
Luminous Efficacy	49.0lm/W	LED Module Life	40,000hours
Light Color	Equivalent to 6,500K (Cool daylight)	Color Rendering Index (Ra)	69

Specifications

Body: Aluminum alloy casting

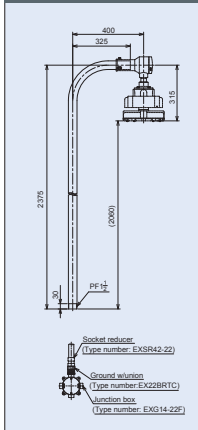
Front glass: Tempered glass

Junction box: Aluminum alloy casting

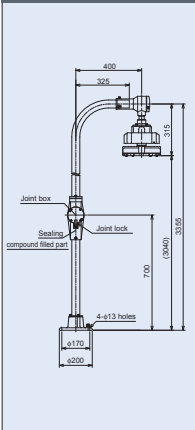
Finish color: Gray (Munsell N7)

Weight: 9.3kg

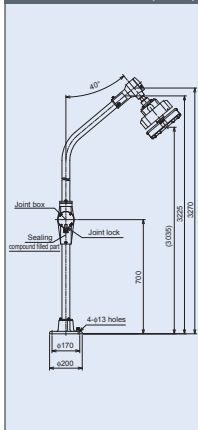
EXIPC1 Combination (Stand)



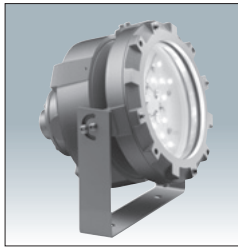
EXIPC4 Combination (Stand)



EXIPC5 Combination (Stand)



Explosion-proof LED Floodlight



Narrow Beam

EXIL9242SA1/2.4-22

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	1,210lm	Power Consumption	20W (100 to 240V)
Luminous Efficacy	60.5lm/W	LED Module Life	40,000hours
Light Color	Equivalent to 6,500K (Cool daylight)	Color Rendering Index (Ra)	69

Specifications

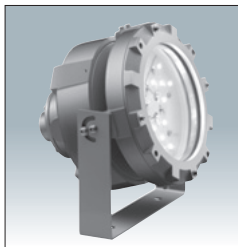
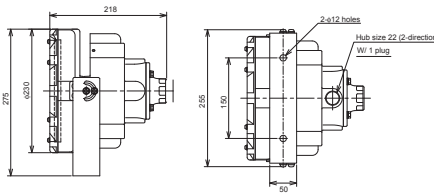
Body: Aluminum alloy casting

Front glass: Tempered glass

Arm: Stainless plate

Finish color: Gray (Munsell N7)

Weight: 9.0kg



Wide beam

EXIL9222SA1/2.4-22

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	980lm	Power Consumption	20W (100 to 240V)
Luminous Efficacy	49.0lm/W	LED Module Life	40,000hours
Light Color	Equivalent to 6,500K (Cool daylight)	Color Rendering Index (Ra)	69

Specifications

Body: Aluminum alloy casting

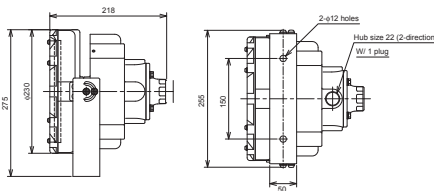
Front glass: Tempered glass

Arm: Stainless plate

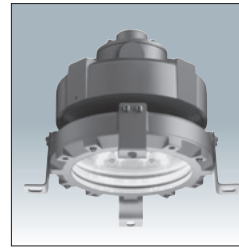
Finish color: Gray (Munsell N7)

Weight: 9.0kg

* Not requires special tools.



Explosion-proof LED Pit Light



Explosion-proof LED Pit Light

EXIL9243SA1/2.4-22

(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	1,210lm	Power Consumption	20W (100 to 240V)
Luminous Efficacy	60.5lm/W	LED Module Life	40,000hours
Light Color	Equivalent to 6,500K (Cool daylight)	Color Rendering Index (Ra)	69

Specifications

Body: Aluminum alloy casting

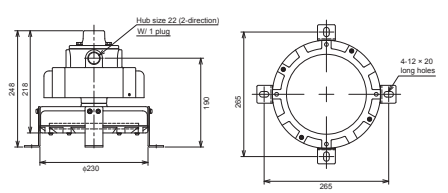
Front glass: Tempered glass

Mounting legs: Stainless plate

Finish color: Gray (Munsell N7)

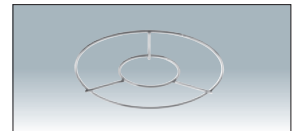
Weight: 9.0kg

* Not requires special tools.



Options

Guard

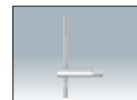


EXILG20 (Stainless)

Finish: Electro-polished

Weight: 0.11kg

Special tools (sold separately)



TM5A
M5 BOX



LM5A
Other end 2.5mm
(Except WXIL9221)

(Note) Special tools are not included.
Purchase separately.

LED Light Bulb

Street Lighting

Park and Landscape
Luminaires

Landscape Luminaires

Floodlights

High-bay Luminaires

Downlights

Universal Downlights

Special Luminaires for
Industrial Applications

**Increased Safety
Luminaires**



Ceiling Mount

Explosion-proof structure: ed3aG3

Protection rating: IP65

**Ambient operating temperature range:
-20°C to +40°C**



Pipe Pendant Mount



Bracket Mount



Special Ceiling Mount



Angle Adjustable



Stand Type

LEDiOC

Increased safety LED luminaire

**An increased-safety, LED luminaire with a compact body
that achieves the equivalent brightness of two 40W fluorescent lights.**

Reduces energy consumption 42% when upgrading from two 40W fluorescent lights.
Saves installation work with its compact body and one-point mounting.

Bright as Two 40W Fluorescent Bulbs

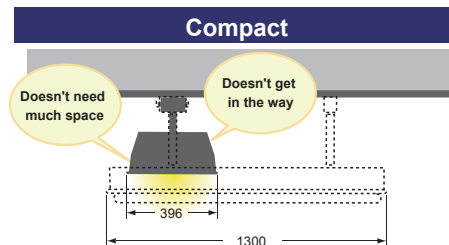
This LED increased safety luminaire can replace two 40W fluorescent lights, the most commonly used in explosion-proof plant settings. The light distribution control achieves a natural spread of light.

Contributes to Saving Energy from Fluorescent Lighting

Substituting an LED luminaire that consumes 47.8W (200V) for two 40W fluorescent lights (80W), results in approximately 40% of energy savings. That contributes to your plant's energy saving measures.

Compact Design

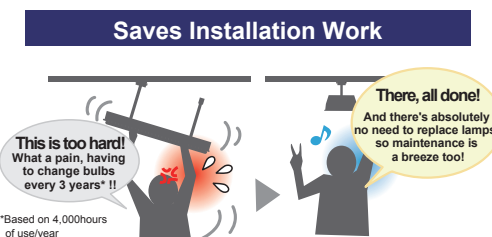
One merit of adopting LEDs as a light source is their effective and practical device shape. They save lighting installation space for explosion-proof plants, which tend to have a great deal of plumbing, wiring, etc.



Super compact at 400mm long — less than 1/3 of fluorescent fixture (1300mm).

Mounts in One Place, Saving Installation Work

Installation work is reduced by its compact design, which allows it to be mounted in one point.



Long Life Cuts Lighting Maintenance Costs

LED modules have a long life of 60,000hours. Their life is 6 times longer than fluorescent lights, reducing maintenance costs at explosion-proof plants, where maintenance is not easy.

The Instant-on Capability Typical of LED Lights Enables Flexible Light Control

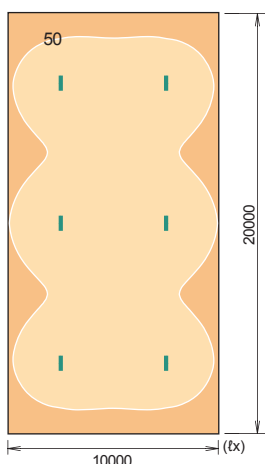
LED lights come on instantly and there is no need to wait for them to get bright. Instant-on and instant-off capability increases energy savings. And as they get bright right away, with no restart or standby time, it's possible to save energy by turning lights off for short period, such as during break times.

Limited Ultraviolet Light Means Limited Attraction of Insects. Less Infrared Reduces Air Conditioning Load.

LEDs emit very little ultraviolet light, keeping bugs attracted to ultraviolet from coming flying. They also generate very little infrared light and with such little infrared radiation from luminaires, the air conditioning load drops, saving electricity.

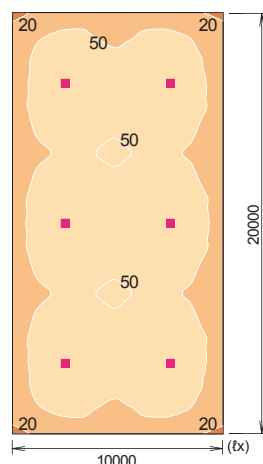
Comparison of Brightness <Horizontal Plane Light Distribution Diagram>

Increased safety fluorescent luminaire (EYFL142525-0) (FLR40W×2)



Light height: 3.5m
Maintenance factor: 0.74
Average Illuminance
60lx

Increased safety LED luminaire (EYL041SA1/2-0)



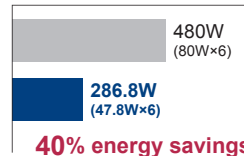
Light height: 3.5m
Maintenance factor: 0.72
Average Illuminance
60lx

Comparison Example

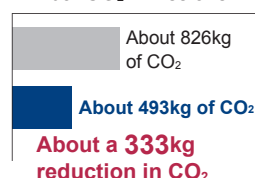
Increased safety fluorescent luminaire
(EYFL142525-0)
(FLR40W×2)

Increased safety LED luminaire
(EYL1041SA1/2.4-16 (22, 28))

Power consumption*1



Annual CO₂ Emissions*2



Lifetime



Design conditions Reflection factor: Ceiling 30% / Walls 30% / Floor 10%

* The numbers on the curve indicate maintained horizontal illuminance (in lx)

*1 Indicates power consumption when used with a 100V power supply.

*2 CO₂ emission volume is calculated based on 0.43kg of CO₂ per kWh.

LEDiOC INCREASED SAFETY LUMINAIRES

Explosion Class: ed3aG3 (e: controller chamber, d: lamp chamber, junction box) Protection Rating: IP65



Ceiling Mount

EYL1041SA1/2.4-16 (22,28)

(100 to 240V, 50/60Hz)

Included contents

Body: EYL041SA1/2.4-0

Pendant mount: EYFHT10

Junction box: EYP14-16 (22,28)

Plug: EXP16 (22,28) B × Three

Rated luminous flux (luminaire luminous flux)	Power Consumption
3,710lm	48.6W(100V) 47.8W (200V/240V)

Luminous Efficacy
76.3lm/W (100V) 77.6lm/W (200V/240V)

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Cool daylight)	65

Specifications

Body: Diecast aluminum

Front glass: Tempered glass

Guard: Stainless

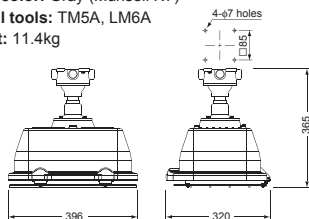
Pipe: Steel pipe

Junction box: Cast

Finish color: Gray (Munsell N7)

Special tools: TM5A, LM6A

Weight: 11.4kg



Pipe Pendant Mount

EYL2041SA1/2.4-16 (22,28)

(100 to 240V, 50/60Hz)

Included contents

Body: EYL041SA1/2.4-0

Pendant mount: EYFHT20

Junction box: EYP14-16 (22,28)

Plug: EXP16 (22,28) B × Three

Rated luminous flux (luminaire luminous flux)	Power Consumption
3,710lm	48.6W(100V) 47.8W (200V/240V)

Luminous Efficacy
76.3lm/W (100V) 77.6lm/W (200V/240V)

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Cool daylight)	65

Specifications

Body: Diecast aluminum

Front glass: Tempered glass

Guard: Stainless

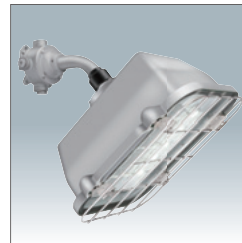
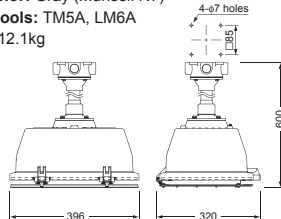
Pipe: Steel pipe

Junction box: Cast

Finish color: Gray (Munsell N7)

Special tools: TM5A, LM6A

Weight: 12.1kg



Bracket Mount

EYL3041SA1/2.4-16 (22,28)

(100 to 240V, 50/60Hz)

Included contents

Body: EYL041SA1/2.4-0

Pendant mount: EYFHT30

Junction box: EYP14-16 (22,28)

Plug: EXP16 (22,28) B × Three

Rated luminous flux (luminaire luminous flux)	Power Consumption
3,710lm	48.6W(100V) 47.8W (200V/240V)

Luminous Efficacy
76.3lm/W (100V) 77.6lm/W (200V/240V)

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Cool daylight)	65

Specifications

Body: Diecast aluminum

Front glass: Tempered glass

Guard: Stainless

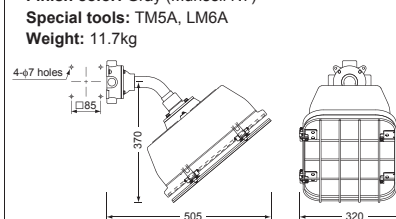
Pipe: Steel pipe

Junction box: Cast

Finish color: Gray (Munsell N7)

Special tools: TM5A, LM6A

Weight: 11.7kg



Special Ceiling Mount

EYL9041SA1/2.4-16 (22)

(100 to 240V, 50/60Hz)

Included contents

Body: EYL9041SA1/2.4-0-16(22)

Pendant mount: EYFHT91

Rated luminous flux (luminaire luminous flux)	Power Consumption
3,710lm	48.6W(100V) 47.8W (200V/240V)

Luminous Efficacy
76.3lm/W (100V) 77.6lm/W (200V/240V)

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Cool daylight)	65

Specifications

Body: Diecast aluminum

Front glass: Tempered glass

Guard: Stainless

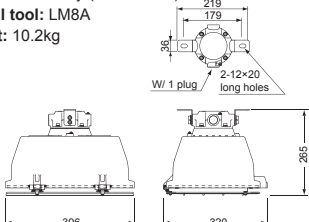
Mounting legs: Stainless

Junction box: Cast aluminum

Finish color: Gray (Munsell N7)

Special tool: LM8A

Weight: 10.2kg



Angle Adjustable

EYL7041SA1/2.4-16 (22)

(100 to 240V, 50/60Hz)

Included contents

Body: EYL9041SA1/2.4-0-16(22)

Pendant mount: EYFHT92

Rated luminous flux (luminaire luminous flux)	Power Consumption
3,710lm	48.6W(100V) 47.8W (200V/240V)

Luminous Efficacy
76.3lm/W (100V) 77.6lm/W (200V/240V)

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Cool daylight)	65

Specifications

Body: Diecast aluminum

Front glass: Tempered glass

Guard: Stainless

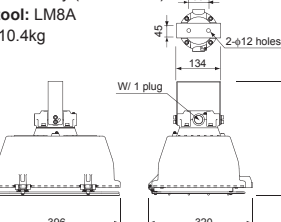
Mounting legs: Stainless

Junction box: Cast aluminum

Finish color: Gray (Munsell N7)

Special tool: LM8A

Weight: 10.4kg



Stand Type

EYL8041SA1/2.4-0

(100 to 240V, 50/60Hz)

Reference Combination Example

Body: EYL8041SA1/2.4-0

Pendant mount: EYIBF50

Pole: EXIPC1(4,5)

* Separate wiring materials are necessary, depending on the type of pole.

Rated luminous flux (luminaire luminous flux)	Power Consumption
3,710lm	48.6W(100V) 47.8W (200V/240V)

Luminous Efficacy
76.3lm/W (100V) 77.6lm/W (200V/240V)

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,000K (Cool daylight)	65

Specifications

Body: Diecast aluminum

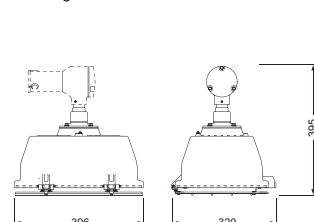
Front glass: Tempered glass

Guard: Stainless

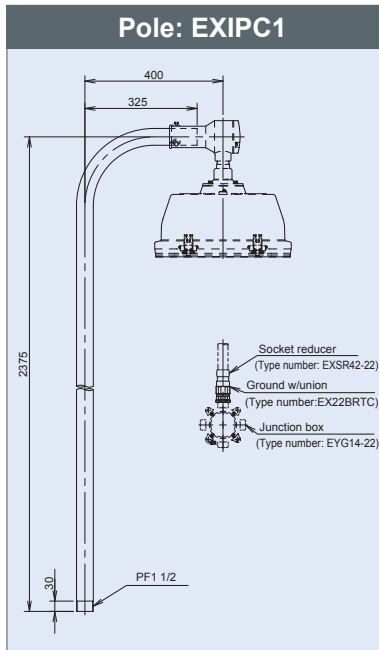
Finish color: Gray (Munsell N7)

Special tools: TM5A, LM6A

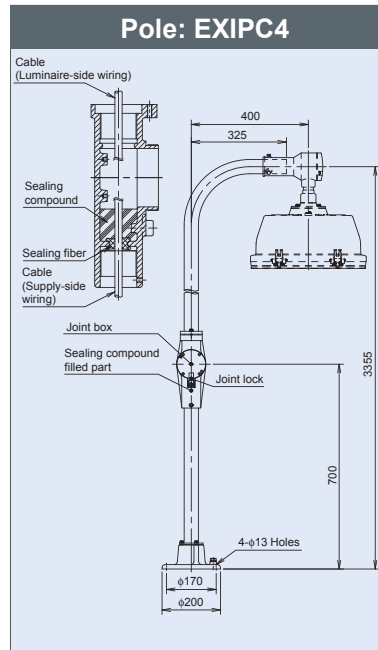
Weight: 10.8kg



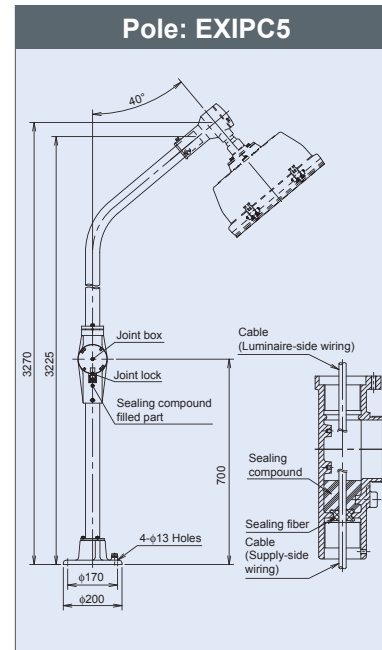
Stand and Pole Combination Reference



Reference Combination Example
 Body: EYL8041SA1/2.4-0
 Pole: EXIPC1
 Socket reducer: EXSR42-22
 Cable ground w/union: EX22BRTC
 Junction box: EYG14-22



Reference Combination Example
 Body: EYL8041SA1/2.4-0
 Pole: EXIPC4



Reference Combination Example
 Body: EYL8041SA1/2.4-0
 Pole: EXIPC5

Special tools (sold separately)



TM5A
M5 BOX



LM6A
Other end 3.0mm



LM8A
Other end 5.0mm

LEDiOC CEILING Low Temperature 43W/23W Types

A weather-proof LED ceiling light that can be used in the low temperatures (-40°C to +35°C) of cold/freezing storage.

The perfect compact LED luminaire for cold/freezing storage. Three mounting types and two brightnesses to choose from.

Operating Range
-40°C to +35°C

Low-temp Trait
High efficacy

Long Life
60,000hours*

Instant On
Yes

Luminaire Height
Thin design

Refrigeration
Load Reduced

*23W type only
The life of the 43W type is 60,000hours below
-10°C. Above that, it is 40,000hours.



Junction box mounted type



Pendant



Ceiling or Raceway Mount Type

Compatible with a Broad Range of Low-Temp Environments

With their wide operating range of -40°C to $+35^{\circ}\text{C}$, LED luminaires can be used in new construction or retrofitting of frozen storage, as well as in standard temperature ranges.

Cold Storage Classes	Storage Temperature
Class C ₃	-2°C to $+10^{\circ}\text{C}$
Class C ₂	-10°C to -2°C
Class C ₁	-20°C to -10°C
Class F ₁	-30°C to -20°C
Class F ₂	-40°C to -30°C

Long Life of 60,000hours*

LED modules have a long life of 60,000hours. They can greatly reduce the frequency of maintenance of illumination in the harsh operating environment of frozen storage.

* 23W type only

The life of the 43W type is 60,000hours below -10°C . Above that, it is 40,000hours.

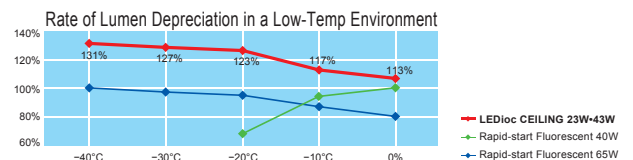
The Thin Design Doesn't Hinder Work in Storage Area

The thin design of the luminaire keeps it out of the way when moving goods in storage.



Very Efficient even at Low Temperatures

As the luminous flux of incandescent lights drops with the operating temperature, more lights are needed, consuming energy unnecessarily. The excellent low-temperature traits of LEDs contributes to reducing power consumption and maintaining high efficacy even at low temperatures.



Improves Energy Savings When Light Turned ON/OFF Frequently

HID and low-temperature incandescent lamps take time to start up once turned on, but LEDs can turn on instantly, allowing them to be turned off when workers are not in the storage area. Turning the power off frequently increases the energy saving effect.

Curbing Heat from Luminaires Keeps Down Refrigeration Load

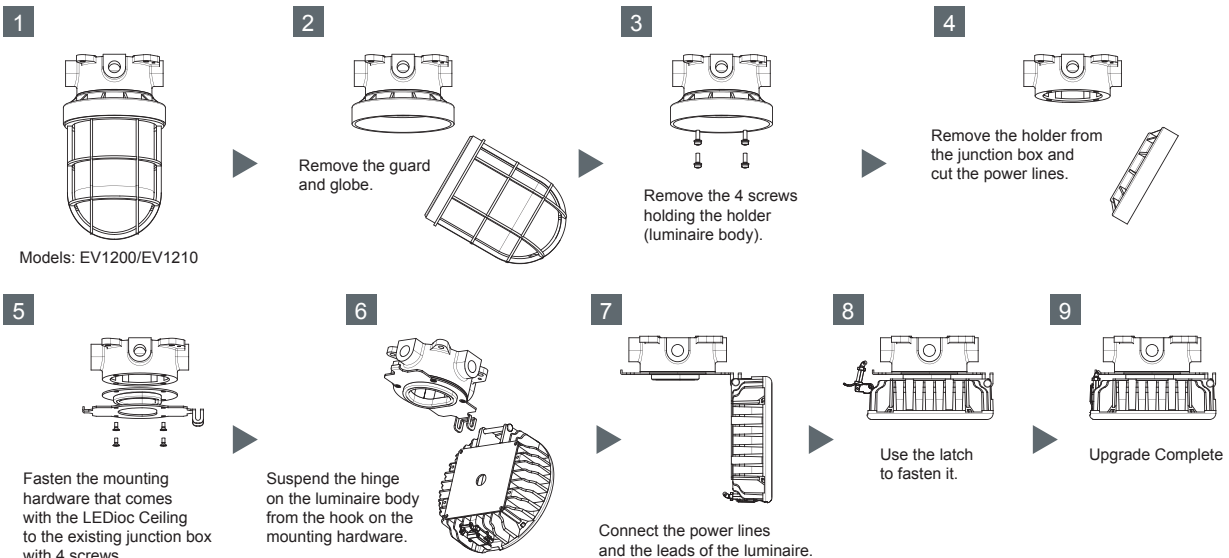
The surface temperature of LED luminaires is lower than that of low-temperature HID or incandescent lamps, reducing their impact on refrigeration load.

Installation-Efficient Design Saves Construction Work*

This type saves work when upgrading to LED luminaires, because when retrofitting a low-temperature incandescent luminaire (Iwasaki), the existing junction box can be left as is, so only the luminaire body has to be replaced.

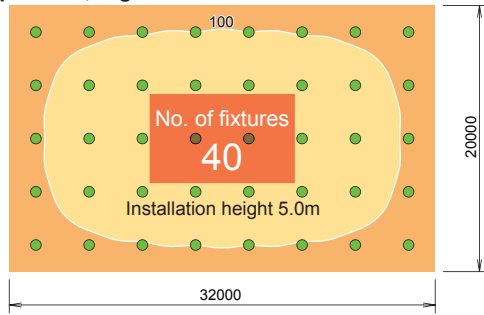
*Limited to junction box mounted types

Procedure for Retrofitting from Iwasaki Low Temperature Incandescent Luminaires (Junction Box Mounted)

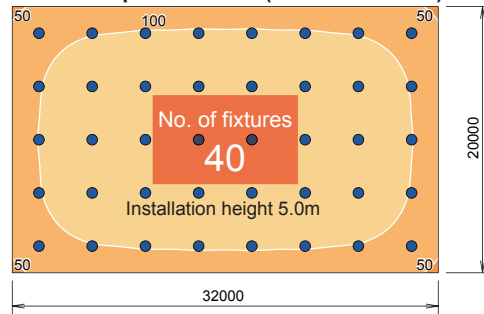


Comparison Example

70W Low Temperature, High Pressure Sodium Luminaire



LEDiC CEILING Low Temperature 43W (EQCL1003DSA9)



*1 Power consumption is calculated based on input wattage at rated voltage input.
 *2 CO₂ emission volume is calculated based on 0.43kg of CO₂ per kWh.
 *3 Indicates product traits when used at -40°C ambient temperature.
 * Maintenance factors, high pressure sodium: 0.83, LED: 0.63

70W Low-temp, High Pressure Sodium Luminaire

LEDiC CEILING Low Temperature 43W type

Average Illuminance

103lx

107lx

Same brightness

Power Consumption*1

3,400W (85W×40)

1,720W (43W×40)

49% energy savings

Annual CO₂ Emissions*2

4,386kg of CO₂

About 2,219kg of CO₂

About a 2,167kg reduction in CO₂

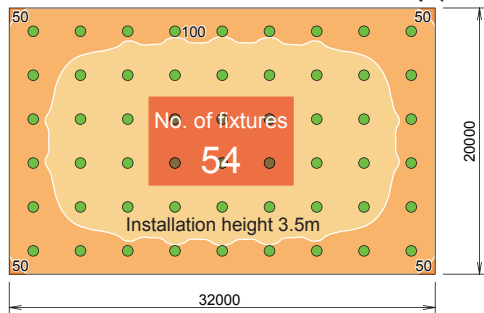
Lifetime*3

9,000hours

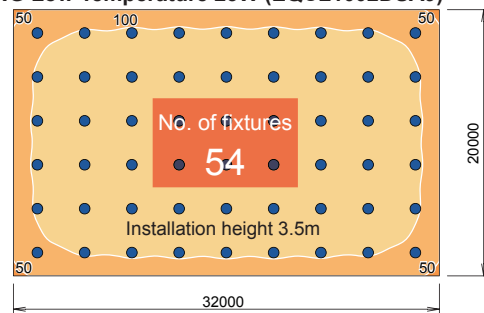
60,000hours

At least 6 times

Low Temperature Luminaire + 200W Incandescent Lamp (EV1210+BB220V200W)



LEDiC CEILING Low Temperature 23W (EQCL1002DSA9)



*1 Power consumption is calculated based on input wattage at rated voltage input.
 *2 CO₂ emission volume is calculated based on 0.43kg of CO₂ per kWh.
 * Maintenance factors, incandescent bulb: 0.84, LED: 0.63

Low Temperature Luminaire + 200W Incandescent Bulb

LEDiC CEILING Low Temperature 23W type

Average Illuminance

98lx

112lx

Brightness: Same or better

Power Consumption*1

10,800W (200W×54)

1,242W (23W×54)

90% energy savings

Annual CO₂ Emissions*2

13,932kg of CO₂

About 1,602kg of CO₂

About a 12,330kg reduction in CO₂

Lifetime

1,500hours

60,000hours

40 times

43W type

**Junction Box Mount****EQCL1003DSA9**

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
2,650lm	43W (100V) 42W (200V/242V)

Luminous Efficacy
61.6lm/W (100V) 63.1lm/W (200V/242V)

LED Module Life	Light Color	Color Rendering Index (Ra)
40,000hours	Equivalent to 5,500K	70

In use at -40°C

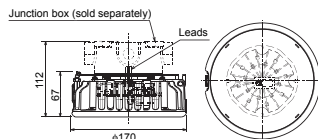
Rated luminous flux (luminaire luminous flux)	Power Consumption
3,480lm	43W (100V) 42W (200V/242V)

Luminous Efficacy
80.1lm/W (100V) 82.9lm/W (200V/242V)

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,500K	70

Specifications**Body:** Diecast aluminum**Globe:** Polycarbonate**Finish color:** White**Weight:** 1.4kg

* Junction boxes (EYP14-16(22,28)) sold separately.
 * Design life of LED modules is 40,000hours. However at low temperatures (10°C or less), the design life is 60,000hours.

**Pendant****EQCL1003CSA9**

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
2,650lm	43W (100V) 42W (200V/242V)

Luminous Efficacy
61.6lm/W (100V) 63.1lm/W (200V/242V)

LED Module Life	Light Color	Color Rendering Index (Ra)
40,000hours	Equivalent to 5,500K	70

In use at -40°C

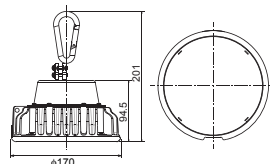
Rated luminous flux (luminaire luminous flux)	Power Consumption
3,480lm	43W (100V) 42W (200V/242V)

Luminous Efficacy
80.1lm/W (100V) 82.9lm/W (200V/242V)

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,500K	70

Specifications**Body:** Diecast aluminum**Globe:** Polycarbonate**Finish color:** White**Weight:** 1.7kg

* Design life of LED modules is 40,000hours. However at low temperatures (10°C or less), the design life is 60,000hours.

**Ceiling or Raceway Mount****EQCL1003RSA9**

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
2,650lm	43W (100V) 42W (200V/242V)

Luminous Efficacy
61.6lm/W (100V) 63.1lm/W (200V/242V)

LED Module Life	Light Color	Color Rendering Index (Ra)
40,000hours	Equivalent to 5,500K	70

In use at -40°C

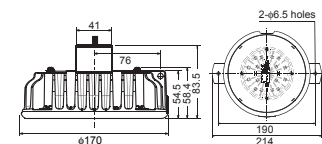
Rated luminous flux (luminaire luminous flux)	Power Consumption
3,480lm	43W (100V) 42W (200V/242V)

Luminous Efficacy
80.1lm/W (100V) 82.9lm/W (200V/242V)

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,500K	70

Specifications**Body:** Diecast aluminum**Globe:** Polycarbonate**Finish color:** White**Weight:** 1.4kg

* Design life of LED modules is 40,000hours. However at low temperatures (10°C or less), the design life is 60,000hours.



23W type

**Junction Box Mount****EQCL1002DSA9**

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
1,880lm	23W

Luminous Efficacy
81.7lm/W

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,500K	70

In use at -40°C

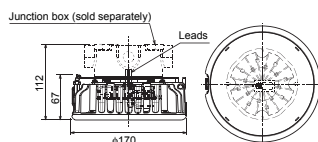
Rated luminous flux (luminaire luminous flux)	Power Consumption
2,470lm	23W

Luminous Efficacy
107.4lm/W

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,500K	70

Specifications**Body:** Diecast aluminum**Globe:** Polycarbonate**Finish color:** White**Weight:** 1.4kg

* Junction boxes (EYP14-16(22,28)) sold separately.

**Pendant****EQCL1002CSA9**

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
1,880lm	23W

Luminous Efficacy
81.7lm/W

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,500K	70

In use at -40°C

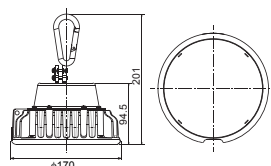
Rated luminous flux (luminaire luminous flux)	Power Consumption
2,470lm	23W

Luminous Efficacy
107.4lm/W

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,500K	70

Specifications**Body:** Diecast aluminum**Globe:** Polycarbonate**Finish color:** White**Weight:** 1.7kg

* Design life of LED modules is 40,000hours. However at low temperatures (10°C or less), the design life is 60,000hours.

**Ceiling or Raceway Mount****EQCL1002RSA9**

(100 to 242V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
1,880lm	23W

Luminous Efficacy
81.7lm/W

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,500K	70

In use at -40°C

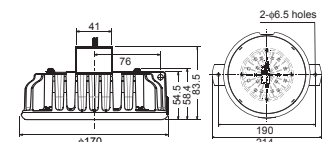
Rated luminous flux (luminaire luminous flux)	Power Consumption
2,470lm	23W

Luminous Efficacy
107.4lm/W

LED Module Life	Light Color	Color Rendering Index (Ra)
60,000hours	Equivalent to 5,500K	70

Specifications**Body:** Diecast aluminum**Globe:** Polycarbonate**Finish color:** White**Weight:** 1.4kg

* Design life of LED modules is 40,000hours. However at low temperatures (10°C or less), the design life is 60,000hours.



LEDiOC CEILING HB Low Temperature

Our lineup of high-output and long life high-bay LED luminaires LEDiOC CEILING HB series are a low-temperature type that can be installed in a wide range of facilities, from cold/frozen storage to general purpose warehousing.

They achieve a high-power brightness that surpasses C-class and F-class compatible low-temp HID luminaires (250W).



Type F



Type V

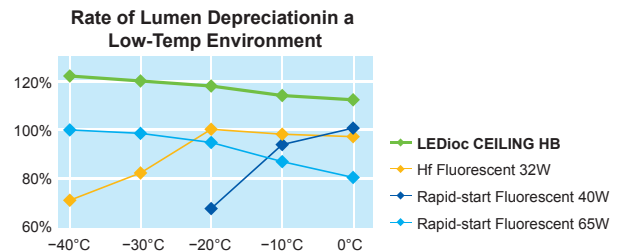
Broad Operating Temperature Range of -40°C to +35°C

With their wide operating range of -40°C to +35°C, LED luminaires can be used in new construction or retrofitting of frozen storage, as well as in standard temperature ranges.

Cold Storage Classes	Storage Temperature
Class C ₃	-2°C to +10°C
Class C ₂	-10°C to -2°C
Class C ₁	-20°C to -10°C
Class F ₁	-30°C to -20°C
Class F ₂	-40°C to -30°C

Very Efficient even at Low Temperatures

Low temperature fluorescent luminaires lose some of their luminous flux to atmospheric temperatures, so more lights have to be installed to obtain the required light, thus consuming electricity unnecessarily. With their exceptional low-temperature performance, LED light sources radiate light efficiently even in low-temp environments, thus providing highly efficient lighting.



Can be Turned ON & OFF Frequently

Because low-temp HID devices take time to reach the required level of lighting once turned on, they consume energy unnecessarily as they tend to be left on regardless of whether workers are in a warehouse or not. LED lights source are capable of instant ON/OFF and restart, so they can be turned on just when work is being done, which contributes to conserving electricity.

High-power Suitable for High-Bay Cold/Frozen Storage

Our high-power LED luminaires has outstanding luminous flux at 13,800lm (Type V, wide beam), perfect for high ceilinged cold/frozen storage.

Reduces Refrigeration Load

Not only do they reduce energy consumption for lighting, but because the surface temperature of LED luminaires rises relatively little, the reduced refrigeration load also contributes to reducing the energy consumption of the refrigeration unit.

Long Design Life of 40,000hours

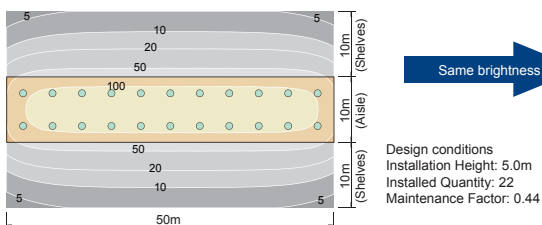
We've achieved a design life for our LEDs of 40,000hours. Because the working environment for maintenance in cold storage cannot readily be restored to standard temperatures, the reduced frequency of maintenance manifests its advantage even more than standard environments.

*Bulb and dimmable types can be special ordered.

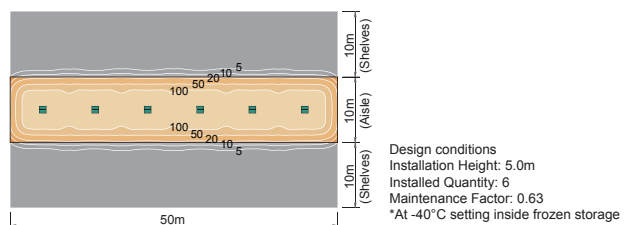
Comparison Example

•Design Example: Warehouse Lighting

Metal Halide Lamp Low-Temp Luminaire
(HQS201B-2A(B))
Metal Halide Lamp 250W (MF250LE/BH)



LEDiOC CEILING HB Low-Temp Type
(EQCL18713N/SA1/2.4)



Metal Halide Lamp Low-Temp Luminaire
(HQS201B-2A(B))
250W metal halide lamp
(MF250LE/BH)

LEDiOC CEILING HB Low-Temp Type
(EQCL18713N/SA1/2.4)

Average Illuminance
(In 50m × 10m range)

100lx

113lx

Same brightness

Power consumption*1

5,786W
(263W×22)

1,080W
(180W×6)

An energy saving
of roughly 77%

Annual CO₂
Emissions*2

About 9,952kg
of CO₂

About 1,858kg
of CO₂
About 8,094kg
reduction of CO₂

Lifetime

9,000hours

40,000hours
About 4.4 times

*1 Power consumption based on input voltages, for metal halide lamp: 200V (standard HPF ballast), LED lamp operating at 200V.

*2 CO₂ emission volume is calculated based on 0.43kg of CO₂ per kWh.

* The horizontal plane illumination distribution diagram above indicates initial values (unit: lx).

Low Temperature Type F (Range for class C & F -40°C to +35°C)

Narrow Beam



Weather-proof

EQCL18711N/SA1/2.4 (Daylight)

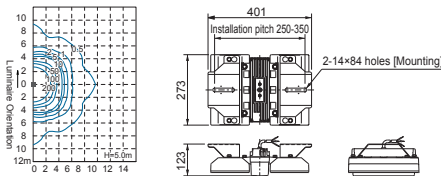
(Body: EQCL18711N/SA1/2.4-0+ bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
10,900lm (Daylight)	180W
Luminous Efficacy	LED Module Life
60.6lm/W (Daylight)	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 5,000K (Daylight)	68

* Values above are typical under standard temperatures.

Specifications

Body: Diecast aluminum **Finish color:** White
Front glass: Tempered glass **Weight:** 10.7kg
Mounting plate: Stainless



Medium Beam



Weather-proof

EQCL18712N/SA1/2.4 (Daylight)

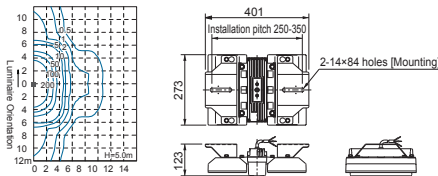
(Body: EQCL18712N/SA1/2.4-0+ bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
12,300lm (Daylight)	180W
Luminous Efficacy	LED Module Life
68.3lm/W (Daylight)	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 5,000K (Daylight)	68

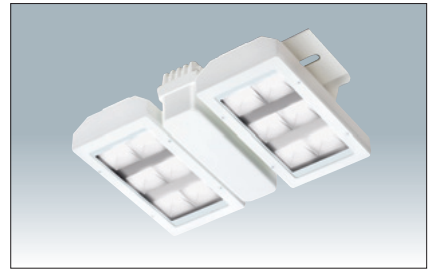
* Values above are typical under standard temperatures.

Specifications

Body: Diecast aluminum **Finish color:** White
Front glass: Tempered glass **Weight:** 10.7kg
Mounting plate: Stainless



Wide Beam



Weather-proof

EQCL18713N/SA1/2.4 (Daylight)

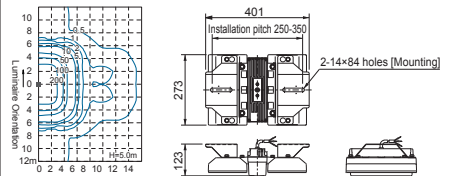
(Body: EQCL18713N/SA1/2.4-0+ bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
13,600lm (Daylight)	180W
Luminous Efficacy	LED Module Life
75.6lm/W (Daylight)	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 5,000K (Daylight)	68

* Values above are typical under standard temperatures.

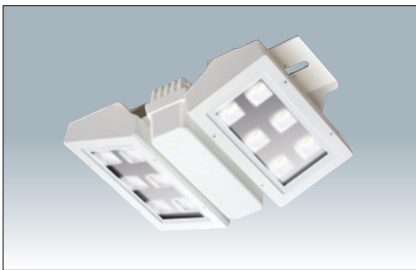
Specifications

Body: Diecast aluminum **Finish color:** White
Front glass: Tempered glass **Weight:** 10.7kg
Mounting plate: Stainless



Low Temperature Type V (Range for grade C & F -40°C to +35°C)

Narrow Beam



Weather-proof

EQCL18721N/SA1/2.4 (Daylight)

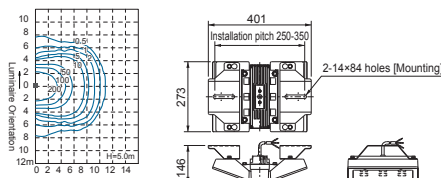
(Body: EQCL18721N/SA1/2.4-0+ bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
11,930lm (Daylight)	180W
Luminous Efficacy	LED Module Life
66.3lm/W (Daylight)	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 5,000K (Daylight)	68

* Values above are typical under standard temperatures.

Specifications

Body: Diecast aluminum **Finish color:** White
Front glass: Tempered glass **Weight:** 10.7kg
Mounting plate: Stainless



Medium Beam



Weather-proof

EQCL18722N/SA1/2.4 (Daylight)

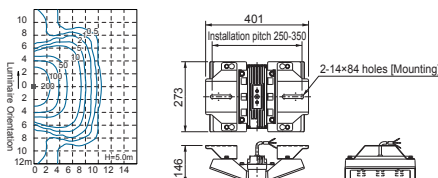
(Body: EQCL18722N/SA1/2.4-0+ bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
13,320lm (Daylight)	180W
Luminous Efficacy	LED Module Life
74.0lm/W (Daylight)	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 5,000K (Daylight)	68

* Values above are typical under standard temperatures.

Specifications

Body: Diecast aluminum **Finish color:** White
Front glass: Tempered glass **Weight:** 10.7kg
Mounting plate: Stainless



Wide Beam



Weather-proof

EQCL18723N/SA1/2.4 (Daylight)

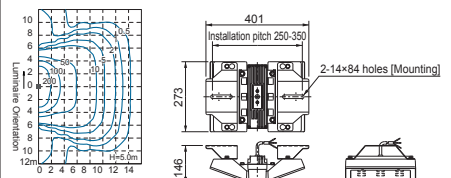
(Body: EQCL18723N/SA1/2.4-0+ bracket: AEHCL11)
(100 to 240V, 50/60Hz)

Rated luminous flux (luminaire luminous flux)	Power Consumption
13,800lm (Daylight)	180W
Luminous Efficacy	LED Module Life
76.7lm/W (Daylight)	40,000hours
Light Color	Color Rendering Index (Ra)
Equivalent to 5,000K (Daylight)	68

* Values above are typical under standard temperatures.

Specifications

Body: Diecast aluminum **Finish color:** White
Front glass: Tempered glass **Weight:** 10.7kg
Mounting plate: Stainless



Warnings on Using LEDiocs (LED luminaires)

Outdoor LED Luminaires

- Do not use luminaires under the following environmental conditions. Doing so may cause fire, electrical shock or injury if the luminaire falls.
 - Places where the ambient temperature exceeds 35°C
 - Very humid places (exceeding 85%) or where it may be immersed in water
 - Places subject to strong vibration and/or shock
 - Where subject to damage from salty air or places on the sea or coast where seawater laden spray comes in direct contact with the luminaire
 - Places that produce corrosive and/or combustible gas: very dusty locations
- Follow the directions in the installation Manual and install the luminaire securely. An improper installation may lead to fire, electrical shock and/or injury due to a falling luminaire.
- When a pole or the like is used in conjunction with the luminaire, be sure to use one of sufficient strength. If the pole is not strong enough, an injury may occur from the luminaire falling.
- Do not alter or modify the luminaire. Doing so may cause fire, electrical shock or injury if the luminaire falls.
- The luminaire gets hot when lit, so do not use it in a place where someone could easily touch it. Touching it may result in a burn.
- The luminaire gets hot when lit, so do not use close to combustible materials. Doing so may cause a fire.
- Never install in an orientation other than that specified. Doing so may result in fire, electrical shock and/or injury due to overheating, flooding or broken glass.
- Do not use luminaires that have not been treated for corrosion resistance in a corrosive environment or where corrosive gases are produced. An injury may result if the luminaire falls due to corrosion.
- Do not install in a place subject to a lot of vibration, such as a crane, unless the luminaire is the vibration-resistant type. Doing so may damage the luminaire itself and/or cause an injury if part(s) of the luminaire falls.
- Do not use as a portable luminaire.
- Do not bend the lead wires to an acute angle.
- LED Color Variation
The color of LEDs vary more greatly than general-purpose light sources, such as incandescent and fluorescent lighting. For that reason, please bear in mind that the color tone of individual LEDs may differ.
- Luminous Flux and Illuminance Distribution
The figures for luminous flux and illuminance distribution noted in the description of each luminaire are reference values, so consider them rough guides.

Eyebird/Solar Powered Lights

- If you have special applications for hybrid solar-powered or solar-powered luminaires, or if you wish to use them in unique environments or in regions subject to damage from salt air, please consult with us separately.
- Solar-powered lights use natural energy, so weather conditions may prevent them from lighting for as long as desired. (Please consult with us separately.)
- Shade from a branch of a tree or the like on the surface of the solar cell severely diminishes its recharging capacity.
- Recharging capacity is diminished when the surface of the solar cell is dirty. Clean it off once a year.
- Refer to the specifications for the service life of each device.

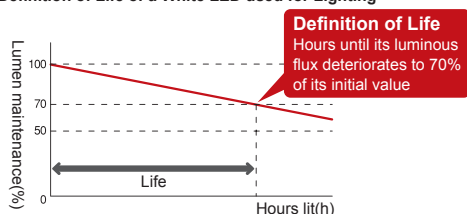
Indoor LED Luminaires

- Do not use luminaires under the following environmental conditions. Doing so may cause fire, electrical shock and/or the luminaire to fall.
 - Places outside, including exterior walls, etc. where rain water or water drops can get on them
 - Places where the ambient temperature exceeds 35°C
 - Places subject to strong vibration and/or shock
 - Very humid places (exceeding 85%) or where it may be immersed in water
 - Places that produce corrosive and/or combustible gas: very dusty locations
 - Places subject to strong winds: near stoves or heaters
- Follow the directions in the User's Manual and install the luminaire securely. An improper installation may lead to fire, electrical shock and/or injury due to a falling luminaire.
- Do not alter or modify the luminaire. Doing so may cause fire, electrical shock or injury if the luminaire falls.
- Do not allow readily flammable materials such as cloth or paper to get close to or cover the luminaire. Doing so may cause a fire.
- Always wear gloves while cleaning or performing maintenance on a luminaire. Failure to do so may result in injury.
- Luminaires must be installed in the correct orientation. Follow the installation Manual carefully for a proper installation. Failure to do so may cause fire, electrical shock or injury if the luminaire falls.
- Do not install in places where the ceiling material is made of a special material, such as wire screen, even with luminaires made for under-eave applications. Rain water may get on the device, causing fire or electrical shock.
- Do not use in locations subject to extreme temperature differences. Condensation inside the device may cause fire, electrical shock or result in injury due to the lamp breaking.

LED Life

Although LEDs do not have a filament that burns out like a traditional incandescent light bulb, its luminous flux does gradually decrease over time in use due to deterioration of the LED chip. The life of this LED is defined as the "number of hours at which its total luminous flux deteriorates to 70% of its initial total luminous flux, or when its light intensity is 70% of its initial intensity, when used as a light source for general lighting" as per technical data sheet 134 "White Luminaire Performance Requirements" of the Japan Luminaires Association. (The life of color LEDs is defined as when the lumen maintenance is at 50%.) The rated life of the white LEDs used in our LEDiocs Series falls under this definition, and the life listed is the time when it reaches 70% of its initial total luminous flux (70% lumen maintenance). Please note that the hours of rated life are the design life of the LED and this life is not guaranteed. Also, in terms of the life of a luminaire, we recommend replacement at 8 to 10 years, in the same way as products using a traditional light source.

<Definition of Life of a White LED used for Lighting>



Designed on the premise that life is the time at 70% lumen maintenance, when used in a general-purpose lighting device.

Solar LED Blocks and Tiles (Precautions for Construction)

- For installations of solar LED blocks or tiles in new or existing concrete or mortar, fill in the surrounding area with sealant*1.
- *1 Alcohol-based silicon sealant (for use with polycarbonate and acrylic)
- Do not fill in directly with concrete or mortar.
- When installing in fresh concrete or mortar, protect the sides and bottom by wrapping them with an anti-corrosive tape, (resistant to alkali) which is sold separately. This anti-corrosive tape is not necessary for installations to existing concrete or mortar.
- Tightly wrap the sides at the joints with the top and bottom covers.
- We recommend using a self-fusing type of anti-corrosion tape. Do not use denatured silicon.

[Floodlights]

- Do not use luminaires that have not been treated for corrosion resistance in a corrosive environment or where corrosive gases are produced. An injury may result if the luminaire falls due to corrosion.
- Do not use a general-purpose floodlight as a portable luminaire.
- Do not bend the lead wires to an acute angle.

Warnings on Using LEDiocs (LED luminaires)

[High-bay Luminaires]

- Do not use luminaires in the following environments/conditions. Doing so may cause fire, electrical shock or injury if the luminaire falls.
 - Places outside, including exterior walls, etc. where rain water or water drops can get on them
 - Places where the ambient temperature exceeds 35°C (places that exceed 40°C in normal ceiling mount lifting mechanism installations)
 - Places subject to strong vibration and/or shock
- Very humid places (exceeding 85%) or where they may be immersed in water
- Places that produce corrosive and/or combustible gas
- Very dusty locations (except for dust-proof/corrosion resistant types)
- Places subject to strong winds
- Install luminaires in locations that can support their weight. If materials are not strong enough, it may result in fire, electrical shock, or injury if a luminaire falls.

[Special Luminaires for Industrial Applications]

- Confirm the characteristics of the usage location and select the product that suits the environment. Using a product that is inappropriate for the environmental conditions may cause fire, burns, electrical shock and/or the product to fall. The kinds of environments that require care include the following.
 - Locations where the ambient temperature exceeds 40°C, as the ability to prevent explosion may be compromised.
 - In cold locations, use low-temperature luminaires and ballasts that can withstand use at low temperatures, as well as light sources that can start at them.
- In locations where explosive atmosphere may be generated, use explosion-proof devices, in compliance with applicable laws and regulations. Never use general-purpose devices.
- Use an airtight device for applications in dusty locations.
Please note, if the dust may be explosive or combustible, conform with applicable laws and regulations and use a proper dust explosion-proof device. Apart from these situations, if you wish to use a product in a special location, please consult with us at our nearest place of business.
- Install luminaires securely in locations that can support their weight. Failure to do so may cause fire, electrical shock or injury if the luminaire falls.

[Downlights]

- Do not use luminaires in the following environments/conditions. Doing so may cause fire, electrical shock and/or parts to fall.
 - Places outside, including exterior walls, etc. where rain water or water drops can get on them
 - Places where the ambient temperature exceeds 35°C
 - Places subject to strong vibration and/or shock
 - Very humid places (exceeding 85%) or where they may be immersed in water
 - Places that produce corrosive and/or combustible gas
 - Very dusty locations
 - Places subject to strong winds
 - Near stoves or heaters
- The irradiation area of luminaires gets hot. The irradiation distance is limited. If used at a distance within the limit, a fire may result. Select the device to use after checking its irradiation distance.
- Do not allow readily flammable materials such as cloth or paper to get close to or cover the luminaire. Doing so may cause a fire.
- Always wear gloves while cleaning or performing maintenance on a luminaire. Failure to do so may result in injury.
- Luminaires must be installed in the correct orientation. Follow the installation Manual carefully for a proper installation. Failure to do so may cause fire, electrical shock or injury if the luminaire falls.
- Do not use for a long time around goods that are particularly readily affected by light (drapes, furs, pictures). Doing so may result in fire, deterioration and/or fading of the material.
- Do not install in places where the ceiling material is made of a special material, such as wire screen, even with luminaires made for under-eave applications. Rain water may get on the device, causing fire or electrical shock.
- Do not use in locations subject to extreme temperature differences. Condensation inside the device may cause fire, electrical shock or result in injury due to the lamp breaking.

[Water-proof Luminaires]

- Do not use moisture-proof luminaires where rain water may get on them. Doing so may cause fire or electrical shock.
- Do not use weather-proof luminaires in humid locations. Doing so may cause fire or electrical shock.
- Prior to using types with shades on or near roads, please consult with us, as this may cause the reflective plates to fall off due to strong winds and/or vibration.
- Do not install weather/moisture-proof luminaires designed for ceiling applications vertically or on a slant in locations outdoors or where water can get on them. Doing so may cause fire or electrical shock. Also, use vertical/horizontal brackets.
- Use in an ambient temperature range of 5°C to 35°C. If used in very hot places, fire or electrical shock may result. Similarly, in very cold places, the lamp may fail to light.
- Do not use in locations subject to vibration or shock. Doing so may cause the light to fail or a fire or electrical shock.
- Places where they can be used

Moisture-proof type	Humid locations, such as kitchens or bathrooms
Weather-proof type	Places hit by rain, such as under eaves, side of houses, etc.
Dual weather/moisture-proof type	Places where weather/moisture-proof types can be used

Safety Precautions

- Luminaires have a life span. Eight to ten years after installation, they may look fine on the outside, but deterioration of internal parts will be advanced.
 - * Conditions of use are an ambient temperature of 30°C, lit 10hours/day and 3,000hours per year. (As per the description in JIS C8105-1)
- Continued use over a long period without inspections may on rare occasions result in smoke, fire and/or electrical shock.

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E5023SA9LW/D	33	ECF0474N/SA1/2.4/DG	69	ECF0773G/SA1/2.4/W	72
E5023SA9N	33	ECF0474N/SA1/2.4/W	69	ECF0773LW/SA1/2.4/DG	67
E5023SA9N/D	33	ECF0475LW/SA1/2.4/DG	69	ECF0773LW/SA1/2.4/W	67
E5024SA9LW	31	ECF0475LW/SA1/2.4/W	69	ECF0773LW/SD2/DG	71
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EDL13800DL/SA9	99	EDL71000L/SA9	94	EHCL18742DN/SA1/2.4	42
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EDL13800DWW/SA9	99	EDL89000L/SA9	93	EHCL18742N/SA1/2.4	41
EDL13801DL/SA9	98	EDL89000N/SA9	93	EHCL18743DLW/SA1/2.4	42
EDL13801DN/SA9	98	EDU35700DL/M	106	EHCL18743DN/SA1/2.4	42
EDL13801DWW/SA9	98	EDU35700DL/W	106	EHCL18743LW/SA1/2.4	41
EDL13802DL/SA9	98	EDU35700DN/M	106	EHCL18743N/SA1/2.4	41
EDL13802DN/SA9	98	EDU35700DN/W	106	EHCL19711N/SA1/2.4	84
EDL13802DWW/SA9	98	EDU35700DWW/M	106	EHCL19712N/SA1/2.4	84
EDL19600L/SA9	97	EDU35700DWW/W	106	EHCL19713N/SA1/2.4	84
EDL19600N/SA9	97	EDU47000DL/M	105	EHCL19721N/SA1/2.4	84
EDL19600WW/SA9	97	EDU47000DL/W	105	EHCL19722N/SA1/2.4	84
EDL19601L /SA9	97	EDU47000DN/M	105	EHCL19723N/SA1/2.4	84
EDL19601N/SA9	97	EDU47000DN/W	105	EHCL19731N/SA1/2.4	40
EDL19601WW/SA9	97	EDU47000DWW/M	105	EHCL19732N/SA1/2.4	40
EDL19602L/SA9	96	EDU47000DWW/W	105	EHCL19733N/SA1/2.4	40
EDL19602N/SA9	96	EHCL18711DLW/SA1/2.4	88	EHCL19741N/SA1/2.4	40
EDL19602WW/SA9	96	EHCL18711DN/SA1/2.4	88	EHCL19742N/SA1/2.4	40
EDL19610L/SA9	101	EHCL18711LW/SA1/2.4	87	EHCL19743N/SA1/2.4	40
EDL19610N/SA9	101	EHCL18711N/SA1/2.4	87	EHCL22202DN/SA1/2/2.4	80
EDL19610WW/SA9	101	EHCL18712DLW/SA1/2.4	88	EHCL22203DN/SA1/2/2.4	80
EDL20000DL/SA9	97	EHCL18712DN/SA1/2.4	88	EQCL1002CSA9	118
EDL20000DN/SA9	97	EHCL18712LW/SA1/2.4	87	EQCL1002DSA9	118
EDL20000DWW/SA9	97	EHCL18712N/SA1/2.4	87	EQCL1002RSA9	118
EDL20001DL /SA9	97	EHCL18713DLW/SA1/2.4	88	EQCL1003CSA9	118
EDL20001DN/SA9	97	EHCL18713DN/SA1/2.4	88	EQCL1003DSA9	118
EDL20001DWW/SA9	97	EHCL18713LW/SA1/2.4	87	EQCL1003RSA9	118
EDL20002DL/SA9	96	EHCL18713N/SA1/2.4	87	EQCL18711N/SA1/2.4	121
EDL20002DN/SA9	96	EHCL18721DLW/SA1/2.4	88	EQCL18712N/SA1/2.4	121
EDL20002DWW/SA9	96	EHCL18721DN/SA1/2.4	88	EQCL18713N/SA1/2.4	121
EDL24200L/SA9	96	EHCL18721LW/SA1/2.4	87	EQCL18721N/SA1/2.4	121
EDL24200N/SA9	96	EHCL18721N/SA1/2.4	87	EQCL18722N/SA1/2.4	121
EDL24200WW/SA9	96	EHCL18722DLW/SA1/2.4	88	EQCL18723N/SA1/2.4	121
EDL24201L/SA9	95	EHCL18722DN/SA1/2.4	88	EW0524LW/SA1/2.4	56
EDL24201N/SA9	95	EHCL18722LW/SA1/2.4	87	EW0524LW/SA1/2.4E	56
EDL24201WW/SA9	95	EHCL18722N/SA1/2.4	87	EW0524N/SA1/2.4	56
EDL24202L/SA9	95	EHCL18723DLW/SA1/2.4	88	EW0524N/SA1/2.4E	56
EDL24202N/SA9	95	EHCL18723DN/SA1/2.4	88	EW0525LW/SA1/2.4	56
EDL24202WW/SA9	95	EHCL18723LW/SA1/2.4	87	EW0525LW/SA1/2.4E	56
EDL24210L/SA9	100	EHCL18723N/SA1/2.4	87	EW0525N/SA1/2.4	56
EDL24210N/SA9	100	EHCL18731DLW/SA1/2.4	42	EW0525N/SA1/2.4E	56
EDL24210WW/SA9	100	EHCL18731DN/SA1/2.4	42	EW0526LW/SA1/2.4	56
EDL24700DL/SA9	96	EHCL18731LW/SA1/2.4	41	EW0526LW/SA1/2.4E	56
EDL24700DN/SA9	96	EHCL18731N/SA1/2.4	41	EW0526N/SA1/2.4	56
EDL24700DWW/SA9	96	EHCL18732DLW/SA1/2.4	42	EW0526N/SA1/2.4E	56
EDL24701DL/SA9	95	EHCL18732DN/SA1/2.4	42	EW0724LW/SA1/2.4	55
EDL24701DN/SA9	95	EHCL18732LW/SA1/2.4	41	EW0724LW/SA1/2.4E	55
EDL24701DWW/SA9	95	EHCL18732N/SA1/2.4	41	EW0724N/SA1/2.4	55
EDL24702DL/SA9	95	EHCL18733DLW/SA1/2.4	42	EW0724N/SA1/2.4E	55
EDL24702DN/SA9	95	EHCL18733DN/SA1/2.4	42	EW0725LW/SA1/2.4	55
EDL24702DWW/SA9	95	EHCL18733LW/SA1/2.4	41	EW0725LW/SA1/2.4E	55
EDL69600DL/SA9	94	EHCL18733N/SA1/2.4	41	EW0725N/SA1/2.4	55
EDL69600DN/SA9	94	EHCL18741DLW/SA1/2.4	42	EW0725N/SA1/2.4E	55

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EW0726N/SA1/2.4	55	FB31	80	SLB8L/G	58
EW0726N/SA1/2.4E	55	GECF371	75	SLB8L/L	58
EXIL121SA1/2.4-16	109	GECF971	75	SLB8L/W	58
EXIL21SA1/2.4-0	110	GEHCL221	80	SLBRN/B	58
EXIL221SA1/2.4-16	109	HB-I-BOLT/M10	80	SLBRN/B-14	58
EXIL23SA1/2.4-0	109	HTLD911F-2	46	SLBRN/G	58
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EXIL9221SA1/2.4-22	109	HTLD941F-2	46	SLBRN/L	58
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EXIL9242SA1/2.4-22	110	HTLE1011EDF-2	46	SLBRN/W	58
EXIL9243SA1/2.4-22	110	HTLE1011EDF-H-2	46	SLBRN/W-14	58
EXILG20	110	HTLE1011EDW-2	46	SLT35/B	60
EYL1041SA1/2.4-16	113	HTLE1011EDW-H-2	46	SLT35/D	60
EYL1041SA1/2.4-22	113	HTLE1041EDF-2	46	SLT35/G	60
EYL1041SA1/2.4-28	113	HTLE1041EDF-H-2	46	SLT35/W	60
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EYL3041SA1/2.4-28	113	HTLE1511ET-2	47	TLE1045LS10-1	48
EYL7041SA1/2.4-16	113	HTLE1541EC-2	47	TLE1511C	50
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IWASAKI ELECTRIC CO., LTD.

Bakurocho-daiichi Building, 1-4-16, Nihonbashi-bakurocho,
Chuo-ku, Tokyo 103-0002, Japan
Tel: +81-3-5847-8630 Fax: +81-3-5847-8647
www.eye.co.jp

Overseas sales offices

Australia:

EYE Lighting Australia Pty Ltd.
15 Industrial Avenue
Wacol QLD 4076, Australia
PO Box 306, Carole Park QLD 4300, Australia
Tel: +61-7-3335-3588
Fax: +61-7-3335-3533
E-mail: info@eli.com.au
www.eyelighting.com.au

Hong Kong:

EYE Lighting (Hong Kong) Ltd.
Room 609, Silvercord Tower 2
30 Canton Road, Tst, Kowloon
Hong Kong
Tel: +852-2368-8782
Fax: +852-2481-2661
E-mail: contact@eyelighting.com.hk
www.eyelighting.com.hk

New Zealand:

EYE Lighting New Zealand Ltd.
18 Levene Place, Mt. Wellington,
Auckland, New Zealand
Tel: +64-9-276-8099
Fax: +64-9-276-3474

Shanghai, China:

Shanghai Iwasaki Electric Co., Ltd.
Room 2512 Bldg. "B" Far International Plaza
No.317 Xianxia Road, Shanghai, China
Tel: +86 21-62351352 62351623
Fax: +86 21-62351353
E-mail: sales2@shiwasaki.com.cn
www.shiwasaki.com.cn

Singapore:

EYE Lighting Asia Pacific Pte Ltd.
21, Kaki Bukit Place, Eunos Techpark
Singapore 416199
Tel: +65-6742-3611
Fax: +65-6743-5202
E-mail: support@eyelighting.com.sg

UK:

EYE Lighting Europe Ltd.
Unit 2, Eskdale Road, Uxbridge
Middlesex UB8 2RT, UK
Tel. +44-1895-814418
Fax: +44-1895-814666
E-mail: sales@eyelighting.co.uk
www.eyelighting.co.uk

USA:

EYE Lighting International
of North America, Inc.
9150 Hendricks Rd.
Mentor, OH 44060-2146, USA
Tel: +1-440-350-7000
Fax: +1-440-350-7001
E-mail: sales@eyelighting.com
www.eyelighting.com

